



Notes

May 24, 2026

AskBeevs - Building and deploying websites with AI

Summary

Workshop participants explored AI driven web development and deployment via streamlined infrastructure with focus on execution speed.

AI Web Development Workflow

Participants successfully prototyped and deployed a business website using AI coding tools and cloud hosting services. Deployment demonstrated how to integrate database schemas and admin interfaces within 90 minutes.

Infrastructure and Economic Strategy

Selection of platforms centered on cost efficiency and ease of deployment for independent entrepreneurs. Token usage was identified as a strategic labor cost rather than purely technical expense.

Market Competition and IP

Discussion highlighted that rapid execution and professional networking now outweigh technical build barriers. Intellectual property protection for AI generated services remains difficult due to ease of replication.

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Next steps

[Timothy Beevor] Delete project: Remove temporary demonstration files and database instances created during the presentation.

[Timothy Beevor] Rank Alternatives: Create a ranked list of database and hosting alternatives ranging from enterprise grade to hobbyist options.

[Timothy Beevor] Plan Next Meeting: Develop a specific project or topic for the upcoming session.

Details

- **Workshop Goals and Tool Selection:** Timothy Beevor outlined the objective of building and deploying a lawnmowing business website within 90 minutes using AI tools ([00:00:00](#)). The workshop utilized Claude.ai/design for creating the landing page prototype, Neon for the database, and Railway for hosting the server, noting that these platforms are accessible even without prior technical experience ([00:01:31](#)).
- **Project Design and Configuration:** Timothy Beevor created a prototype for "Beaver's Lawn Mowing" in Craigieburn, Victoria, requesting a landing page with a customer inquiry form for services such as lawn mowing and hedge trimming ([00:02:38](#)). The AI generated a questionnaire to determine business requirements, including customer contact fields and a warm, personable visual style ([00:04:31](#)).
- **Tool Capability and Token Management:** Randal Tait suggested using Google Stitch as an alternative to the Claude design tool, noting that it offers unlimited tokens and allows for faster iteration ([00:09:28](#)). Participants discussed the nuances of token usage, with Timothy Beevor acknowledging that Claude Code could produce similar results without requiring specific design-focused tools ([00:07:50](#)).
- **Integrating Design with Claude Code:** Timothy Beevor downloaded the prototype as a zip file and utilized Claude Code to build a functional application ([00:12:56](#)). The plan involved developing a Node Express backend, establishing a Postgres database schema on Neon, and creating an admin interface to manage quote requests ([00:14:11](#)).
- **Token Cost Perspectives:** The group discussed the economic implications of AI usage, with Timothy Beevor emphasizing that tokens should be viewed as a form of labor cost rather than just a technical expense. They compared

costs across different platforms, noting that while some models are expensive, others like Claude Mini are more economical ([00:19:09](#)).

- **Database and Server Deployment:** Timothy Beevor demonstrated the deployment process, beginning with a local smoke test followed by setting up the database connection string via Neon ([00:24:00](#)). The application was successfully deployed to Railway, and the domain was established to make the site live ([00:28:32](#)).
- **Application Verification and Admin Access:** Timothy Beevor confirmed the site's functionality by submitting a test quote through the inquiry form and verifying the data appeared correctly within the Neon database. The process included setting up an admin view for managing these inquiries, which could be extended into a full-stack application with calendars and more complex logic ([00:36:33](#)).
- **Design Iteration with Google Stitch:** Timothy Beevor experimented with a new visual design generated in Google Stitch, exporting the files and requesting that Claude Code refactor the existing application to incorporate the new look while maintaining the original functionality ([00:40:07](#)) ([00:43:37](#)). This process demonstrated the capability to update designs efficiently without rebuilding the entire application ([00:46:10](#)).
- **Infrastructure and Hosting Alternatives:** The participants discussed why Railway and Neon were selected, citing them as cheap, stable, and popular options for small projects ([00:47:46](#)). Other hosting alternatives such as Herza, Vercel, Google Cloud, AWS, and Azure were mentioned, with Timothy Beevor noting that Railway and Neon offered a simpler professional pathway for independent entrepreneurs ([00:49:02](#)).
- **Future of AI in Software Development:** The discussion touched on the evolving role of AI in coding, including automated security reviews and code maintenance. Timothy Beevor predicted that the ability to generate code will lead to increased development activity and that while AI will not eliminate coders, it will fundamentally change how they work ([00:51:35](#)).
- **Version Control and Data Management:** Timothy Beevor noted that while direct uploads were used during the session, using GitHub would provide better version control and the ability to roll back changes ([00:01:31](#)) ([00:55:00](#)). The group also considered alternative data storage methods, such as sending lead information to email or AirTable, as potential modifications to the current setup ([00:57:04](#)).
- **Database and Infrastructure Recommendations:** Timothy Beevor provided a comprehensive list of infrastructure options ranging from enterprise-grade to hobbyist levels, including Amazon CockroachDB, Supabase, PlanetScale, Crunchy Bridge, Turso, Zarta, Amazon Web Services EC2, Amazon Web

Services ECS, Heroku, Northflank, FlightControl, Render, Fly.io, DigitalOcean, and Pulify. For those working with artificial intelligence coding, Timothy Beevor recommended Neon, Supabase, Render, Vercel, and Fly.io for their documentation, clean code configuration, and fast preview deploys. Additionally, Timothy Beevor noted the ability to build and configure private servers for approximately \$6.15 per month, which allows for sovereign code execution ([00:58:42](#)).

- **Enterprise Prototyping and Deployment:** Timothy Beevor emphasized the efficiency of building and deploying software prototypes to demonstrate value, particularly when working within organizations. By using synthetic data to bypass long, traditional corporate approval processes, individuals can deliver outcomes and prove concepts quickly before handing them over to IT departments for formal implementation ([01:01:48](#)).
- **Intellectual Property Protection for Artificial Intelligence Generated Services:** Shaza raised concerns regarding the protection of intellectual property for websites or code generated via artificial intelligence, specifically questioning how to prevent others from reproducing the same result. Timothy Beevor clarified that while protecting a brand or a truly novel business process might be possible, it is generally difficult to protect digital services from being replicated by others using similar artificial intelligence tools ([01:03:17](#)).
- **Competitive Execution and Market Barriers:** Timothy Beevor observed that the ease of building complex software via artificial intelligence means that the ability to execute quickly is a key differentiator ([01:04:32](#)). While it is technically easy to build competitors for existing digital services, Timothy Beevor noted that significant barriers remain, such as specific domain regulations, the need for industry trust, and the difficulty of convincing established consultants to adopt new tools that might disrupt their existing work ([01:05:37](#)).
- **Value of Networking and Future Planning:** Timothy Beevor and Shaza concluded that in an environment where technical build barriers are lowered, the primary value lies in establishing professional connections and social networks to drive adoption ([01:07:56](#)). Regarding future meeting plans, Timothy Beevor suggested that Emma Ferguson might present their work on agents next week, though Emma Ferguson indicated hesitation to present at that time ([01:08:56](#)).

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Transcript

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AskBeevs - Building and deploying websites with AI - Transcript

00:00:00

Timothy Beevor: No worries, Jonathan. All right. Uh, let me share my screen.

Randal Tait: Yeah,

Timothy Beevor: Might put this up here. Here we go. All right. Can everyone see the screen? Yep. All right guys,

Bruce: Yeah.

Timothy Beevor: so no presentation tonight. Um, now we have looked at agents and we have looked at vibe coding. Uh, it's it's one thing to be able to create these applications and run them locally on your machine. It's entirely another actually to put that stuff onto the internet. Okay. Now, putting stuff onto the internet is kind of the goal a lot of the time. Uh, but what we're going to do tonight is we're going to build a business website for a lawnmowing business. Um, this is just I'm going to keep it simple because obviously the the time it takes to actually build the application needs to be low to fit into 90 minutes. But what we're going to do is we're going to work with the AI to not only build the build and design We're also going to Okay.

00:01:31

Timothy Beevor: So, what what we're also going to do is we're going to learn how to work with the AI to upload it. Now, in this case, I'm going to upload it onto a database technology called Neon, and I'm going to put the server on a technology called Railway. Now, one of the cool things about AI is AI understands these platforms. So, even if you've never used one of these platforms before, um you can very quickly adopt it. Um I think tonight we're not going to use GitHub, but what you can do is you can also use it to integrate with GitHub. So, you can basically manage your code forks, etc. Um, but yeah, so we're going to build a website and we're going to deploy it and have it up and running on the internet hopefully in 90 minutes. Um, the first thing I thought I'd show you is this new tool that's come out called [claw.ai/design](#). Um, this is a very very new tool. It's only been out um, I don't know, probably two or three weeks.

00:02:38

Timothy Beevor: Uh, but what it enables you to do is create a project. Now, this is very good for building slides um and presentations and stuff, but um uh so let's create a new project called gardening business. So, we're going to create this. Now I'm going to now you could use just claude, you could use codeex, you could use claude code, you could use anything to build a website for a lawnmowing business, but in this particular one we're going to use um called design. So we're going to build an interactive prototype. So let's say I am I have a I am starting a new lawnmowing business in Craigy Burn Victoria. I'd like you to build me a simple landing page that customers can go to off my Facebook page. And I'd like an ability for people to submit an inquiry for a simple quote. So I can call the customer. Okay. Really simple. Let's go. So at the moment we're only building So what's your business name? Um we'll call it Beaver's Lawn Mowing.

00:04:31

Timothy Beevor: Um, we tidy the yard. We offer lawnmowing, edge trimming, hedge trimming, weed control, tidy ups, screen waste, one-off clean it, basically everything. Service beyond craggy burn. Yep. Nicolum Roxboro Park Green Bale. Yep. Your phone number 0419 678911. Your email tbead.com. What info? I want their name, their phone number, their email, their property address. Yeah, we'll just put a few things. The visual style, uh, warm and personable. Yep. Yeah. We'll put a few things on there. Show the pricing. quotes only just one decide for me. Anything else? No. So, so that questionnaire was all created by the AI based on my initial prompt that so that's turned

Bruce: God, it's simple, isn't it?

Timothy Beevor: that into uh like like a prompt. Now it's going to build out my website. Now remember, this is not building me a full stack app yet. It's just building the design so it looks nice. So set up the project structure, build out the landing page, wire up the form validation and submission state, and add tweaks panel.

00:06:49

Timothy Beevor: and then verify. So essentially what this is doing is this is like a this is like replet or something else but probably a bit simpler but it'll build out a code a basic code set for us.

Bruce: And you'd be able to upload your own photo to that, wouldn't you? If you wanted a um, you know, lawn you' just done.

Timothy Beavor: Yeah. So that little plus down there, I could I could upload all my own stuff,

Bruce: Yep.

Timothy Beavor: but also if I wanted to have like copy, like if I wanted like what I wanted written on the website, I could give it like a word document or an MD file or something and it would take all that into consideration

Bruce: Nope.

Timothy Beavor: for me. So it would basically then build out exactly what I want. But you'll probably find this will be pretty reasonable because it'll think about what to say. And the cool thing is those questions it came up with that was it thinking okay so he wants to build that kind of website.

00:07:50

Timothy Beavor: This is the kind of information we need. So it's it's writing our styles.

Bruce: Nothing.

Timothy Beavor: So it's obviously writing out the the graphics and how it wants to look and feel. based on the parameters you get a certain you get like an allocation of tokens for this program. Um I don't know if it's pro or max. Um I know Max definitely has it but this works really well as well for um slides as well. like so graphic design um you know presentations and stuff. So, you can't see much happening here at the moment because it's just in the background writing all the files.

Randal Tait: Jonathan just asked a question about claw design in terms of their token usage. I found it really

Timothy Beavor: Yeah, I agree. Yeah.

Randal Tait: heavy.

Timothy Beavor: And I don't I think it does a really good job, but I think for a lot of reasons, you don't actually have to use it. Like you could just use um Claude Co-work. It would come up with something similar.

00:09:28

Timothy Beavor: But I just wanted to show you this today. I do find the designs quite nice. Um, and they can follow design guides pretty well. And you can set up design guides in this so you can get consistency. So if you had like a business and you wanted everything to look the same, you can actually give it those

Randal Tait: Yeah, I've been using um Google Stitch instead of design cuz it's

Timothy Beavor: things.

Randal Tait: just Stitch is free unlimited tokens effectively and I find it's similar

probably not quite as good as code but it doesn't burn and the

Timothy Beevor: Yeah,

Jonathan Samuel: As you can read and you can iterate faster with snitch as

Randal Tait: Titans.

Timothy Beevor: it's

Jonathan Samuel: well. They want the picture.

Timothy Beevor: What was that postage?

Randal Tait: Yeah, you can actually link the two together.

Timothy Beevor: Okay.

Randal Tait: You can actually get uh like there's a there's a connector between Claude Code and and Google

Jonathan Samuel: Hello.

Randal Tait: Stitch if you want.

Timothy Beevor: Okay. So, this is Google's one, is it?

00:10:42

Randal Tait: Yeah.

Timothy Beevor: Yeah.

Randal Tait: So you can choose to whether you want to do an app or a web page and you just click on web and go pretty much the exact same prompt and you

Timothy Beevor: Okay.

Randal Tait: actually wouldn't be bad compare apples against oranges.

Timothy Beevor: another one of their labs projects.

Jonathan Samuel: I'm getting

Timothy Beevor: Okay.

Jonathan Samuel: freaky.

Timothy Beevor: So, so this is the website. Doesn't look too bad. Okay, I'll let it finish. Yeah, it's not terrible, is it? I wouldn't pick those colors, but All right. So that's it says it's verifying. Okay. Share. So what I'm going to do now is I don't know if this is finished or not. I think it is. I I just want the code says

Jonathan Samuel: Oh my gosh.

Timothy Beevor: verifying. Let's see if I can download it. So, share download the project as a zip folder. So in that folder, I'll just bring this up here. I'll new folder.

00:12:56

Timothy Beevor: Call it gardener. So I'm going to put the folder in there. Okay. So, I'm kind of out of there now. Like, I've got my design. I don't know what this is doing over here, but we'll just persist anyway. Okay. So, I'm not going to use the

application with Claude code tonight. I'm just going to use um Chord in the browser. What's this say? Might just do that again just to make sure I got everything. Download project zip. Okay. Okay. So, we grab our files. They're like our design files. And I'll move it to trash. And I'll put those in there. Okay. So, what we're going to do is we're going to connect to So, I'm going to go change directory document slash garden. And then I'm going to launch Claude. So that just means go to the directory then open Claude and then Claude will access only that workspace. So cool.

00:14:11

Timothy Beevor: So now I'm in Claude code and I say um in the folder you'll find the design for a gardening business website. I'd like to deploy the website with a real database using Neon and I'd like the actual web page to sit on Railway. Can you please help me um complete all the functionality for my page and then help me deploy it onto the internet? This is for a gardening business. So, it'll know what those two tools are and it'll look at that code and go, hm, I don't have enough there to upload that. So, I'm going to have to do some work to build that out and then hopefully it'll work with me then to deploy to those. Here's what I see. So, it needs to build a Node Express back end that serves this static page, exposes the quotes to the Neon Postgres and has an admin. Um, how should when someone gets a quote, just store it in the database. There we go. So, this is just answering questions.

00:16:09

Timothy Beevor: Um, an admin page for all quote requests with a single password. Yeah, let's do that. Use free stock photos for now. Yep. Um, do you already have accounts? I already have both accounts ready for submit my answers. So, again, it's stepped me through what what I need to do. Now, it's going to go off and write the code for me. So now it's going to create the plan. So build the Express back end. So the server Postgres schema for the quotes table. It's going to clean up the index and remove any design tool scripts. Replace the images with some images that it finds. It's going to give me um the ignore files etc. Then it's going to walk me through the deployment. It's doing this all for me. Now this is a very simple example but you could you could build like a whole app and then go through the same process something more complicated. Yep. So this here, these little ticks are like it's going through and working, doing all the stuff we need.

00:17:53

Timothy Beavor: Okay. So this is the SQL file to create. As we can see, we can have the created, the name, the phone, the email. So all the data we need. So we're going to create that schema. It's just created that for us. So we don't even have to be a database expert now. So this is the file I think that generates the database for us. So it basically writes all the code to actually go and create the database in the the neon technology. And if you wanted to do this on Azure or another technology, you just say, "I want to do it on Azure and it'll probably go off and do something similar, but obviously for that platform instead of this." And if you don't know a platform, just ask it. Say, "Hey, I want to deploy this somewhere. Have you got any good ideas?" It'll tell you. Okay, so we're creating a server file JavaScript And if you think about it, any small business, like this is one of the things that just takes forever trying to get a website up and it usually costs a lot.

00:19:09

Timothy Beavor: Like if you go and ask someone to build you a website, it's not cheap. So now it's even going to go and clean up my file because it's got a whole bunch of junk code in it from the design. I did practice this on Friday night. This was the boring slow bit because you can't see it. It's sort of just working on it in the background. It's probably going through that big.

Bruce: Yeah.

Timothy Beavor: It's chewed through 12,000 tokens already.

Bruce: What's a token worth, Tim?

Timothy Beavor: Uh, a token is about 3/4 of a word.

Bruce: Yeah. But what's its dollar

Timothy Beavor: So about on Claude

Bruce: value?

Timothy Beavor: Max nothing cuz I'm connected to that. So I've sort of already paid for it. But in what is it? So like let's ask um is that token needs a million tokens on Open AI. Oh, it's because \$5 per million, but \$30 per 1 million output.

Bruce: Yeah.

Timothy Beavor: It's quite a lot.

00:22:02

Timothy Beavor: It's only 75 cents on mini.

Bruce: Yeah.

Timothy Beavor: So, all right. So, we go back here. Yep. There's a lot of talk in the industry about um you know those like max plans and how many tokens you get and what people are really paying for them and the subsidization rate and what they're really going to cost in the future and and a lot of people are saying you know they cost a lot. That's why I think you're going to have to start looking at tokens like labor.

Bruce: Very

Timothy Beavor: Like you're going to have to look at a human and go a human's worth a salary of, I don't know, \$150,000. Then how much are you willing to pay for tokens for that human? because they're going to be more useful if they get tokens. All right,

Bruce: futuristic.

Timothy Beavor: so So, it's basically going through and doing all the work for us. Yep. So, obviously there's a read me. is probably going to teach me how to do it.

00:24:00

Timothy Beavor: So, it's kind of documented what it's done. Okay. Should I delete the old design tool files in the root? Yeah. And again, like last week, none of this requires much technical skill. It's really just a like a process really. Okay. So, now it's doing its smoke test. So, it's clean. Okay. Okay, so now we're starting a server to test it. This is just locally dependencies installed. Clean the smoke test the server. I need the connection string. I can also do to apply. I'll paste it in the chat. and the admin password. Um, I'll pick one and paste it. Are you ready to pick your answers? Okay, go ahead and paste both. Okay, so the admin password. So what we do is we go into Neon and how this works is I create a new project and I call it Gardeno and I'm going to put it in Sydney. Okay.

00:26:12

Timothy Beavor: So what I'm going to do is I'm going to put my database in Sydney. I'm going to create that. And here there's this little connection string. So, we grab that. What I do is I copy that snippet. Then um neon string and password equals I don't know So I'll just write that down. So it's just the username and password is user. I don't know one I think that just built the server for the the database. I think it's now basically spinning up a local version to test. Yep. server up and database reachable. Now testing a form submission. Yeah. So it's basically going to enter some data into the form for me and it's going to make sure that that data goes across into the database. So everything works. So we've connected it. So now we're shutting down that server. We don't need that anymore. So basically that endpoint is now working.

00:28:32

Timothy Beevor: And the front end works. And now we're going to build out the deployment onto railway. I believe. Let's deploy to railway. Okay. Direct upload to railway or we can go through GitHub. Let's just go direct. Uh, okay. So, I'm just going to start one of these. Oh, it might do it for me. Hang on. Should the railway be created in a specific team workspace or your personal account? Let me peek interactively. Please type this into the prompt. Leading runs the session. Okay, so I grab that and if I open a new window, leave blank for randomly generated. Okay, so I want a randomly generated project name. Well, no. We'll call it call it gardeno. Gardeno 101. I'll fade this back. Okay. So, it's created my project. Service doesn't exist yet. Yeah. Okay. So, that question before I probably should have just said use the standard.

00:32:50

Timothy Beevor: I think this will work anyway. Um, yep. So again, I'm really not driving this. I mean, I'm just sort of following what it's telling me to do. Okay. So now it's pushing my database connection over. You can see that it's building here. It is deployed. The other thing I think might have happened there is like we we initiated it, but it actually takes probably 2 or 3 minutes for that server to come online. It's building it. That's created the domain for Hey. Yes. There we go. It's on the web.

Bruce: Pretty smart, isn't

Timothy Beevor: Yeah,

Bruce: it?

Timothy Beevor: I think that first question I should have just went the recommended way because I think it just would have done it like just in one click. But okay, so now it's live. Rotate the neon password. You paste it into the chat. Yeah, that makes sense. Yeah, change the admin password. Okay, so I'm just going to delete all this after this anyway, so I'm not too fast.

00:36:33

Timothy Beevor: But um but yeah, that's working now. Hopefully, if I go down and I type Timothy Beaver 19687755 tbe atipad.com. My property address is 489 Smith Street, Craigy Burn and I need lawnmowing. Yeah. So that's pretty ordinary, but monthly times Saturday morning. So you can specify whatever you want and we

could go in and just say, "Hey, I don't like this. I want something else." and it would just go and change it for you. I hit request my quote. There we go. Cool. So, if I go over to my Neon database, then there it is. So, there's my record in my database. Now, obviously at the moment that's a pretty dumb way of doing it, but if you wanted to, you could build an application that reads that out into your CRM or, you know, the Google Sheet or, you know, wherever you want to put it. So, we've got the database there. Um, so what is the URL for the admin to log in? So, if we go back, I don't know if there's a I don't think there's a a link to it, but there will be a URL.

00:38:28

Timothy Beavor: Okay. So, there's there's like a secret. Um, so that would be user garden. No one is up. Oh, did I say sorry admin? There we go. So that's just pulling from the database. So if I had a small business and I just wanted to capture leads off my website, um all I would have to do is go there. Um if I wanted to then, you know, make a proper login and make it look nice and and and you could also you could also extend on

Bruce: Yep.

Timothy Beavor: this, right? So nothing can stop you from you might vibe code a complete app for your lawn mowing business. you know, actually have a calendar, put the times in there, put it all into a database, and you could you could turn up with a full stack application and then once your application's all working, you put it in a folder, and then you say, "Hey, uh, Claude, I want you to go and help me, um, deploy this app." So, cool.

00:40:07

Timothy Beavor: That ran pretty smooth.

Bruce: Didn't take long, did it?

Timothy Beavor: No. And it looks it it actually looks all right. Like if you gave it some pictures and tidied it up a little. It's not embarrassing.

Randal Tait: That's um that is one benefit of Stitch is it it uses um it automatically pulls N banana photos in for you.

Timothy Beavor: What about what about if I grab that and I just go to stitch

Randal Tait: See

Timothy Beavor: stitch with Google. All right. So, what shall we do? I want to build a lawnmowing website with got the following content and we'll put it on the Hey, because I'm sure this tool would do exactly the same. One thing I do like about Google's products is not many people use them. So, they usually got really, really good performance. And this isn't even a commercial product yet. It's a It's still a lab

project. Their new models are quite nice though, aren't they? This is This looks great.

00:41:59

Timothy Beevor: Boom. Boom. Boom. How cool is that?

Bruce: Pretty

Timothy Beevor: That is just wild.

Bruce: smart, isn't it?

Timothy Beevor: I mean, just think of like if you're a web developer, you are completely and utterly screwed.

Bruce: You are bugging.

Timothy Beevor: You're not going to do anything this good. You

Bruce: No. Well, you might do it nicer and better,

Timothy Beevor: just

Bruce: but it's

Timothy Beevor: I don't know if you would do it better

Bruce: Problem is

Timothy Beevor: though.

Bruce: it'll take you a few days.

Randal Tait: better than that time though. Look at the images.

Bruce: No, not in that

Randal Tait: Images is the thing that always gets me when I go when I use stitch burst

Bruce: time.

Randal Tait: design.

Timothy Beevor: Okay. So, I've done that. Now, let's let's have some fun. Let's export that. Select all uh zip file. I'll export it. Now, where did that go? Where the hell did that go? Oops. Maybe. Is it?

00:43:37

Timothy Beevor: That's not it, is it? Okay. All right. Um, I'm going to put that back in garden. Why not do that? New design. All right. New design. Now, what I'm going to do is I'm going to go back to Claude Code and I'm going to go, "Hey, Claude Code. Hey, Claude Code. I just did the new design I like better in stitch." with google.com and I put the design file and all the information in the folder new design. Can you look at it and update my app to suit the new new design? So, it's gone and found the code and the screen. So, this is quite complicated, right? This is completely different HTML. It's still got all the functionality we need to incorporate. I've just chucked it at it and it needs to deploy it. So, there's like three variables it's having to consider. Let's

see if it can do it. I'm pretty sure it'll be able to You could also potentially say, um, I want the app to look more like this website.

00:46:10

Timothy Beevor: If you gave it the website, it can go and look at it and look at the source code.

Bruce: sort of copy

Timothy Beevor: Get the styles. Got it.

Bruce: it.

Timothy Beevor: Slick material three. Let me show you a plan to do first since it involves some tradeoffs. Uh, email back. Keep all the old fields in the new visual style. Yeah. Keep tailwind. Yep. Uh, let's keep let's keep the Google ones. Won't be stable long term. Yeah, whatever. Submit. All right. So, it's going to go and refactor for us. And I think the crazy thing with this this agency now is like like if you can build websites like this, imagine like how much easier it is to build businesses in the first place. Like if the cost to create a website for some event or something's you know I mean I'm only at 84. I'm going 49 minutes. I've already done one and I'm refactoring to two. It's been less than an hour.

00:47:46

Timothy Beevor: And I'm I'm literally not doing something more complicated just because it just takes longer to code.

Bruce: Yeah.

Timothy Beevor: Like it's literally it's no harder for me to go and do something a lot more complicated. It just takes longer because it's got to write the code for

Bruce: Heat.

Timothy Beevor: it. Yep. So building the new design, replacing that with the new design, integrating all seven original form fields into the form card, updating the CSP in the in the server JavaScript for Tailwind and the image host and then redeploying. Like you know how long it takes to launch a website anywhere? It's like just give a team like a month

Bruce: Yeah.

Randal Tait: Tim, is there any reason you chose um Railway and Neon? Like is there are they easy, free,

Timothy Beevor: uh cheap and easy

Randal Tait: cheap, stable?

Timothy Beevor: and quite popular. Um,

Randal Tait: And and if you own the domain, how do you

Timothy Beevor: uh, there's a basically there's a tool in there where you can actually just buy a domain or you can give them your

00:49:02

Randal Tait: like?

Timothy Beevor: details for your domain off like GoDaddy or something and it'll just resolve that that URL they give

Randal Tait: Yep.

Timothy Beevor: you to your domain. It's not hard at all.

Randal Tait: Okay. And how much space does railway like give you for free? Is there a

Timothy Beevor: Um, I think railway I've just got like a hobby plan.

Randal Tait: Google

Timothy Beevor: I think it's like five bucks, but you can get away with free. I I just did it because I didn't want one thing I had up I didn't want to like fall off the internet if it ran out. But um but yeah, I mean this is crazy cheap now. Like it's super super cheap. I think this one. Yeah, five bucks a month or something. Um, you could also use something like Herza, which you can actually deploy your own server. Like they physically deploy you a server. Um,

Randal Tait: Wow.

Timothy Beevor: that's like six bucks a month, I think. Um, for certain types of applications, Versel is a good one,

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Randal Tait: Okay.

Timothy Beevor: too, although they got hacked recently. But you could also just do it on Google Cloud as well. Google Cloud would do it. um Azure would do it, AWS would do it, but I find that the further you go up the professional pathway that like it's just

Randal Tait: It's

Timothy Beevor: a lot more stuffing around.

Randal Tait: okay.

Timothy Beevor: And I'm sort of pitching this class as more, you know, for sort of little entrepreneurs that want to do stuff, not not kind of enterprise stuff. But if you had a friend who had a lawnmowing business and they wanted they had a really crappy website and you wanted to help them out and build them one, I mean, I don't see why you couldn't. I mean, what's the risk really? It's like, you know, phone number of a customer really. It's about it. Okay. So, it's updating all this. The other

cool thing with this tool is if it has problems, you can actually fix them on this end. So, they've got AI connected, but you don't really need to because they've got the command line interface to

00:51:35

Bruce: Yeah.

Timothy Beevor: the Chord code, so Cloud Code can find bugs and errors in it anyway. And so, so if you think about it, like deploying infrastructure for websites and stuff used to be super difficult, but now um the AI can talk to these tools and do the work on your behalf and test them and bug debug them. I saw um Replet now has like security. I think it's like five bucks and it'll review all of your code and close and get rid of any security issues. So, they're doing like code reviews. So, I think and I think they've done a deal with Microsoft to do that at um a kind of enterprise level. So, I can imagine a time in the not too distant future where you're going to be able to write software for enterprise relatively easily. And I think that's that's where the industry is going. I think Eric Schmid said the other day by like next year pretty much all code's going to be written by AI mostly. There'll be still a lot of but I I just think what will happen is you'll just get a lot more code.

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Timothy Beevor: You'll have a lot more like the cost of code will come down so you'll be able to do more. So there'll be some more stuff happening. I don't think it'll just get rid of coders but it'll get rid of a lot of coders who don't want to do it this way. I can tell you that.

Randal Tait: Yep.

Timothy Beevor: Yeah, no worries, Jonathan. All right, so we're cleaning up the database. Okay. So, let's see if that worked. And the cool thing is once it's done it once, it sort of knows where to go. That's interesting. Did it deploy yet? I'm not sure you uh nothing changed. Did you deploy it or was it just cached? Or did I not copy and paste it properly? Oh, yes. Yep. There we go. So that's the new website with the new look and feel from Google that must have been ced browser C. Yeah. Well, that actually happened a lot quicker than I thought it would.

00:55:00

Randal Tait: And like Jonathan said, you can actually tweak your design a little bit

easier. I find in stitch you can um change the colors and

Timothy Beevor: So, let's see if this still works. Um, Michael Bundy 40gmail.com 101 Smith Street Burn Okay. So, it's even it's even done that bit for me. So,

Bruce: Yep.

Timothy Beevor: there we go.

Bruce: Brilliant.

Timothy Beevor: So yeah, so basically any code set that you build or vibe code um anything that has a database fullstack applications up and down it will build these for you and deploy them. It also has environment variables. So if you wanted to add like AI functionality to an application, it'll step you through and help you set all your API keys and environments and all that sort of stuff. You saw in the code flow that you can do it via GitHub. Now GitHub is good because you can basically deploy to GitHub and then GitHub deploys to um Railway. But doing that every time you make a change you fork the code.

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Timothy Beevor: So you kind of like like in this case we had one version and then we created another version the in this case the first version would be lost whereas if you did it through GitHub it would actually apply that as a change and then so you would actually be able to roll back if that makes sense. So, GitHub kind of looks like um like this

Bruce: Pretty

Timothy Beevor: tool. Yeah. I don't know what else to tell you on this one. It's um

Bruce: sweet.

Shaza: That was great, Tim.

Randal Tait: and so you use Neon just because you want to capture that data like you don't actually have to use neon I'm guessing like you could just get to send an email to your inbox

Timothy Beevor: Yeah.

Randal Tait: Oops.

Timothy Beevor: Yeah. The problem with an email though is you need like a service to send it through. Um but yeah, so you could also probably do it to like Air Table or Neon or let's ask let's ask um let's go Claude. Um, I have built an app with Neon as my database and Railway as my um server.

00:58:42

Timothy Beevor: Please write for write out for me all the best alternatives for both. Give me options and rank them from enterprise grade through to hobby. So, Amazon

cockroach database Aven mid tier sup superb base is a popular one. Planet scale crunchy bridge superbase free tier terso zarta hosting. So AWS, EC2, ECS, Heroku, the original path, Northflank Flight Control, Render, Fly.io, that's got a server in Sydney, Digital Ocean, Pulify. Um, if I'm working with AI coding, which are the best do you think? Okay, so neon is really, really good. Super base is not as good. Render versel fly.io AI friendly means good documentation clean configures code fast preview deploys and small surface area. Um it's um hits is it? Um where is it? And this is where I found you can build your own servers. Yeah, \$6.15 a month and it'll it'll help you spin up that server and it'll configure it and put not put a Linux operating system on it and then run your code so you can sort of go really sovereign as well.

01:01:48

Timothy Beavor: Um, yeah, I did that one the other week for fun. It worked fine. Yeah, that's all I have for tonight. Anyone's got any questions?

Bruce: No, I got to be up at about 5 5 a.m. So, I'm pretty happy.

Shaza: Now that's really really good, Tim. It just looks so

Bruce: Yep, it does.

Shaza: easy.

Timothy Beavor: Yeah. Like there's there's nothing there I did that was particularly technical, was there? It's just it's just like following a bouncing ball really. Yeah.

Bruce: Just

Timothy Beavor: And I think and I think the other thing too is like if you work for an

Shaza: Yeah.

Timothy Beavor: organization and you vibe code something or build something like often the biggest challenge is getting the requirements and getting people to imagine the enterprise version. So if you can actually build it and deploy it and it works and you're not using you know

Shaza: Damn it.

Timothy Beavor: enterprise data or secure data even if you did it with synthetic data like you could pretty quickly see how you could deliver valuable outcomes and then and then if you do want to make it all robust and you know rigid you can hand it over to it but you've sort of done the work.

01:03:17

Timothy Beavor: You don't need to go through that nine month boring process. You just kind of, you know, they've just got to implement

Shaza: Jim, how does um trademarking or

Timothy Beavor: it.

Shaza: IP I know you're not a lawyer, but how does the IP of that website. How do you protect that when someone else can go and just do something in Claude and get exactly the same result and say, "Oh, no. I did it in AI." So,

Timothy Beavor: Uh, I think the honest answer is you can't protect it.

Shaza: yeah.

Timothy Beavor: Um, you could definitely you might be able to protect a brand. You might be able to patent a like a very novel business process, but even that's a stretch.

Shaza: Yeah,

Timothy Beavor: And

Shaza: but because it's all repeatable stuff,

Timothy Beavor: so

Shaza: it's not really

Timothy Beavor: no,

Shaza: yours.

Timothy Beavor: I I don't think so. But if you look at the way things are going, it's actually going to be people's ability to execute that's going to differentiate because cuz some You're right.

Shaza: Oh,

Timothy Beavor: Someone might set up some sort of digital service,

01:04:32

Shaza: absolutely.

Timothy Beavor: but if somebody else were to just like you could literally just look at other businesses that are doing well and go and mimic them. I mean if you did it from like in the past you would have to go and hire like even if you did this offshore in India or Bali or somewhere if you wanted to hire people to go and build a website that has reasonably complicated functionality you might be up for 50 or \$100,000 to hire a team and get them to work on it. But now you could just like build something and so so literally you might even be able to just look around at other businesses that are

Shaza: H.

Timothy Beavor: doing innovative things and just go you know what that model's working. I might build a competitor to that if they haven't patented it.

Shaza: Yeah.

Timothy Beavor: And you

Shaza: Exactly. Yeah. I think I think if they've got a trademark or a patent then then I'd be in trouble.

Timothy Beavor: know

Shaza: But other than like if I built say all right let's build a website that looks like a lot like Coca-Cola and they'll come after me.

01:05:37

Shaza: I get

Timothy Beevor: So yes, they can go after you on trademark,

Shaza: that.

Timothy Beevor: but if you like like trying to patent an a business process is really really difficult.

Shaza: Yeah.

Timothy Beevor: I know in Australia law it's exceptionally difficult.

Shaza: Yeah.

Timothy Beevor: So if you had like say someone built an app, I don't know maybe there's an app where they do compliance checks. So, I was thinking about one today. You know, child care centers have to have all these plans associated with legislation and they have to hire consultants to come in and review all their plans every year to make sure that they're all compliant and then they have to update their plans and that's apparently like a really painful thing for organizations to get certified. So I thought, well, imagine if you could just get all the latest plans and then upload last year's documents and get the fit gap and then update the docs. So you could essentially vibe code something that would do that. Um, but if I found someone else doing that and I like the look of it, like the cost, like if they went off and spent \$300,000, you know, building that system,

01:06:48

Shaza: Yeah.

Timothy Beevor: like you could probably build it in a day or two. Um, so, so yeah,

Shaza: Yeah.

Timothy Beevor: but like even today when I was I was having a conversation with Grock about that idea and it's almost like the people that the consultants that do the work wouldn't want to buy it off you because you're sort of cutting their lunch. Um, even if you're saving them time, they don't even know that that's good for them. So, they'll reject you. But, as soon as you try and sell it to a childcare center directly, they're going to want you to sign off on it. and what credentials do you have? So, you sort of there's so many like I was actually trying to get the AI to give me ideas that weren't just compliance based. And like unless you build like a product or a service in the physical world, it's there's not a lot of ideas around really.

Shaza: Yeah.

Timothy Beevor: It's all

Shaza: Yeah. There's a lot of regulated ones,

Timothy Beevor: regulated.

Shaza: but if you think about ones that make money, I think they're the they're the things that people are want to going to want to be able to make money and be lazy, right?

01:07:56

Timothy Beevor: So,

Shaza: So

Timothy Beevor: so the sad thing is the more valuable thing is not going to be the ability to build the website. The more valuable thing is building the connections and the social networks to get people to give you money.

Shaza: yeah,

Timothy Beevor: That's that's where the money's going to come

Shaza: exactly. Absolutely.

Timothy Beevor: from.

Shaza: Whether people give you money or Yeah. whether it's playing the stock market or whether it's whatever it is,

Timothy Beevor: Yeah, but but I but you can also be endlessly creative.

Shaza: but

Timothy Beevor: So if you find something that you like as a service, you might just be able to go build your own version of and and you know if it's not if it's not like I mean if you copied absolutely every element and it was clearly just a copy but I mean most ideas aren't that novel really like a gardening website is not novel you know there's millions of them so but you

Shaza: No. Yeah, having a unique idea is sometimes a tough thing. All right, Tim, I'm going to head off.

01:08:56

Bruce: Terrific.

Shaza: Uh, thank you very much for tonight. That was really good. Thanks. See you.

Timothy Beevor: Cheers. Well, I think that's it, guys. Um,

Bruce: You're going. Thanks, Tim.

Timothy Beevor: no worries. if there's anything you want to build next week. Um, I haven't got anything on my plan list, so I have to come up with something otherwise, but um I think Emma's been building agents, which is cool. Um,

Randal Tait: Maybe it's Em's turn to show until next

Timothy Beavor: yeah.

Emma Ferguson: I don't think

Randal Tait: week.

Timothy Beavor: Yeah.

Emma Ferguson: so.

Timothy Beavor: All right. Well, thank you for your time. Um, hope you learned something. That's another I find that's a big door, that one. Once you figure out how to do that, that means you can get your stuff to the world. So,

Emma Ferguson: That's amazing. Thanks,

Bruce: Yeah,

Emma Ferguson: Tim.

Bruce: thanks Tim.

Timothy Beavor: all right.

Bruce: That's terrific.

Timothy Beavor: Thanks all.

Bruce: Boil gone.

Emma Ferguson: See you.

Timothy Beavor: Bye.

Donna Hawkins: Thanks Tim.

Emma Ferguson: Nice to see you all.

Randal Tait: See?

Timothy Beavor: Bye.

Emma Ferguson: Bye.

Bruce: Cheers.

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