

**Rob Koch**  
Software Engineering

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EDUCATION  
**BS in Computer Science**  
Miami University  
**BA in Psychology**  
Miami University

TECHNOLOGIES  
Frontend - Javascript, Typescript,  
Vue, Nuxt, React  
Backend - Node, Python  
Google Cloud, Cloudflare, AWS  
Android, Android Studio  
Swift, XCode, iOS

 **Markwhen**  
[Markwhen.com](https://Markwhen.com) · [GitHub](https://github.com) · Brooklyn, NY

Markwhen is like markdown for timelines - a markup language for visualizing series of events, e.g. in a timeline or calendar  
Described as spectacular, incredible, absolutely genius, and awesome  
As the founder and sole developer, I made the language, the parser, the editor, and visualizations  
Vue, React, Cloudflare Workers & Pages, Google App Engine, Stripe  
Github (3K★) | Documentation | Editor web app | VS Code extension

 **Senior Frontend Software Engineer** Mar 2022 - Sep 2022  
[Reddit](https://reddit.com) · Seattle, WA

As part of the Premium & Perks team, designed and implemented a new React internal dashboard.  
The dashboard is used by customer service members and our team to debug and take action on common customer issues like adjusting coin balances or payment issues.

 **Swink** Feb 2021 - Mar 2022  
[GitHub](https://github.com)

Swink was a QR design app with dynamic short links with simple analytics  
I created a novel way to embed any image into the middle area of a QR code without taking advantage of error correction, open sourced here; the live designer is here  
Web app and API with SSR Nuxt/Vue on Google App Engine  
Stripe, Github Actions for CI/CD, Playwright for testing  
Github (2.4K★) | Designer web app | HN discussion

 **Software Engineer, Google Messages** Oct 2018 - Feb 2021  
[Google](https://google.com) · Seattle, WA

Integrated search bar on the home screen, the largest visual change in the product's recent history, which led to a 2x increase in search users and a 50% increase in search clicks  
Designed and implemented the ability for users to select multiple messages, which is used over 2M times/day  
Designed and implemented heuristically identifying, and automatically replying to, carrier requests to users for spam phone numbers, which is used 10k times/day across all users  
Designed and implemented experiments for increasing the CTR of RCS promotions, leading to a 22% increase in user sign-ups

 **Software Engineer** May 2017 - May 2018  
[Cladwell](https://cladwell.com) · Cincinnati, OH

Converted iOS app from a thick to a thin client in conjunction with API rollout  
Reduced instances of crashing by an order of magnitude, while simultaneously adding new features  
Raised app rating from 3.x to 4.4+

**English Teacher** 2012 - 2015  
Various Universities · Changsha, Shaoxing, and Hangzhou, China  
Taught conversational English to University classes in 3 schools over 3 years  
Learned Chinese 但是最近越来越懒了