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

Founder
Markwhen.com · Brooklyn, NY
Sep 2022 – now

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 sole developer, I made the language, the parser, the editor, and the visualizations

Vue, React, Cloudflare Workers & Pages, Google App Engine, Stripe

Github (3K★) | Documentation | Editor web app | VS Code extension

Senior Frontend Software Engineer
Reddit · Seattle, WA
Mar 2022 – Sep 2022

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.

Founder
swink
Feb 2021 – Mar 2022

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
Google · Seattle, WA
Oct 2018 – Feb 2021

Integrated search bar on the home screen, the largest visual change in the product's recent history, which led to a 2x increase in seach 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
Cladwell · Cincinnati, OH
May 2017 – May 2018

Converted iOS app from a thick to a thin client in conjuction 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
Various Universities · Changsha, Shaoxing, and Hangzhou, China
2012 – 2015

Taught conversational English to University classes in 3 schools over 3 years

Learned Chinese 但是最近越来越懒了