

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

 **Digital Service Expert** Apr 2024 - now
Defense Digital Service

Tech lead for DDS involvement with National Background Investigation Service - helping to make background investigations better for the entire federal government

 **Markwhen** Sep 2022 - now
markwhen.com · meridiem.markwhen.com · GitHub · Seattle, WA

Created Markwhen, a markup language for visualizing series of events e.g. in a timeline or calendar

Created Meridiem, a full-featured, real-time collaborative editor for the markwhen language, available as a progressive web app and as a downloadable binary (electron)

Described as spectacular, incredible, absolutely genius, and awesome

Vue, Electron, Cloudflare Workers & Pages, Google App Engine, Stripe, CodeMirror, Node

Obsidian Plugin | Documentation | Meridiem | VS Code extension | Github (3K★).

 **Senior Frontend Software Engineer** Mar 2022 - Sep 2022
Reddit · 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

Swink was a QR design app with dynamic short links with simple analytics

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 · 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 · 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 但是最近我的中文越来越懒了