

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 Services Expert
Defense Digital Service · dds.mil · ai.mil

Led 3 engineers to architect and implement the Personnel Vetting Questionnaire, the replacement for the SF86, for use by all agencies of the federal government

Identified and coordinated with agency stakeholders (federal agencies that require or support background investigations and personnel vetting) to develop requirements for PVQ

 Creator and Open Source Maintainer
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 fantastic, 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 (4K★).

 Senior Frontend Software Engineer
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.

 Creator and Open Source Maintainer
QR Designer
Feb 2021 - Mar 2022

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 (2.7K★) | Designer web app | HN discussion

 Software Engineer, Google Messages
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 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

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
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