

Rob Koch

Software Engineering

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EDUCATION

BS in Computer Science
Miami University

BA in Psychology
Miami University

TECHNOLOGIES

Frontend - Javascript, Typescript, React, Vue, Nuxt

Backend - Node, Python

Google Cloud, Cloudflare, AWS

Android, Android Studio

Swift, XCode, iOS



Digital Services Expert
[Defense Digital Service](#) · [dds.mil](#) · [ai.mil](#)

Apr 2024 - now

Led engineering team to architect and implement the [Personnel Vetting Questionnaire](#), the replacement for the [SF86](#), for use by all agencies of the federal government. Arbitrated application scope and requirements between federal agencies, investigative service providers, and policymakers

Maintainer of [code.mil](#), a DoD Initiative to foster and support the release of open source projects



Creator and Open Source Maintainer
[markwhen.com](#) · [meridiem.markwhen.com](#) · [GitHub](#) · Seattle, WA

Sep 2022 - now

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](#)

[Github \(4K★\)](#) | [Obsidian Plugin](#) | [Documentation](#) | [Meridiem](#) | [VS Code extension](#)



Senior Frontend Software Engineer
[Reddit](#) · Seattle, WA

Mar 2022 - Sep 2022

Designed and implemented a greenfield internal dashboard, 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

Created a QR design app with dynamic short links with simple analytics

Pioneered 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](#)

[Github \(2.7K★\)](#) | [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 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
[Cladwell](#) · Cincinnati, OH

May 2017 - May 2018

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