

# Rob Koch

Software Engineering

✉ [kochrt@gmail.com](mailto:kochrt@gmail.com)

🌐 [robko.ch](http://robko.ch)

🌐 [linkedin.com/in/kochrt](https://linkedin.com/in/kochrt)

🐙 [github.com/kochrt](https://github.com/kochrt)

## 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

Apr 2024 - now

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

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 PVQ application scope and requirements between federal agencies, investigative service providers, and policymakers



### Creator and Open Source Maintainer

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 [fantastic](#), [spectacular](#), [incredible](#), [absolutely genius](#), and [awesome](#)  
[Github](#) (4K★) | [Obsidian Plugin](#) | [Documentation](#) | [Meridiem](#) | [VS Code extension](#)



### Senior Frontend Software Engineer

Mar 2022 - Sep 2022

[Reddit](#) · [Seattle, WA](#)

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

Feb 2021 - Mar 2022

[QR Designer](#)

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

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 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

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