

# Rob Koch

Software Engineering  
TS/SCI Clearance

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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

Apr 2024 - now

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

Tech Lead for architecture and implementation of the [Personnel Vetting Questionnaire](#) (PVQ), the replacement for the [SF86](#), for use by every agency of the federal government

Managed relationships with federal agency stakeholders from the intelligence community, federal investigative service providers and policy makers

Arbitrated PVQ system scope and requirements between agency's engineering teams

Created schema formats and tooling that these agencies could leverage in their own systems

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



### 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) with >10k monthly active users

React, Vue, TS, Node, PostgreSQL, Google Cloud, Cloudflare, CodeMirror

Described as [fantastic](#), [spectacular](#), [incredible](#), [absolutely genius](#), and [awesome](#)

[Github](#) (4.5K★) | [Documentation](#) | [Meridiem](#) | [HN Discussion](#) | [Obsidian Plugin](#) | [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.

React, GraphQL



### 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 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