Rob Koch

Software Engineering

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in linkedin.com/in/kochrt

github.com/kochrt

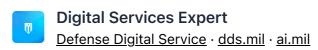
EDUCATION

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



Led engineering team to architect and implement the <u>Personnel Vetting</u> <u>Questionnaire</u>, the replacement for the <u>SF86</u>, 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

Apr 2024 - now

 $\underline{\mathsf{markwhen.com}} \cdot \underline{\mathsf{meridiem.markwhen.com}} \cdot \underline{\mathsf{GitHub}} \cdot \mathsf{Seattle}, \, \mathsf{WA}$

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

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 <u>fantastic</u>, <u>spectacular</u>, <u>incredible</u>, <u>absolutely genius</u>, and <u>awesome</u>

<u>Github (4K★) | Obsidian Plugin | Documentation | Meridiem | VS Code extension</u>

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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 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 conjuction 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