Daniel Ayoub

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I'm a software engineer with 5 years of IC experience and 2 years of experience in project planning and leading a team. I have shepherded software from concepts to deployed and launched systems serving hundreds of thousands of users. I set a high standard for myself to deeply understand the systems I work on and to pass that knowledge on. I'm a long time maker who is always looking for ways to branch out and improve my skills.

Skills

➔ Languages: **TS/JS/HTML/CSS, Go, Node**, experience in SQL, GraphQL, Python, Swift, Java

➔ Frameworks: **React/Native, Next.js, Redux, Storybook,** Express, Angular, TCA, Spring

➔ Tools: **Terraform, PostgreSQL/MySQL, Docker,** Git, Linux, AWS, CircleCI, Jenkins, Jira

➔ Other: **DevOps, AppSec, monitoring/alerting,** teaching, documentation, QA

Professional experience

Founder — Scratching Post LLC — December 2021 - Present

- Developing a document parsing framework with advanced machine learning models that allows users to ask questions about uploaded documents. Python+NodeJS backend and React+websocket frontend
- iOS app currently in beta. SwiftUI+TCA app that allows users to log doses using photos, bridging the reminder-reality gap, greatly improving the UX over existing reminder solutions

Security Engineer — Zoom — May 2020 - October 2021

- Architected and deployed to AWS the system to store trusted server signing keys in Hardware Security Modules, enabling potential clients with FIPS requirements to consider Zoom's secure encrypted product
- Created Terraform configurations for demos on deadline for presentations to preview security features in development and land large clients
- Implemented in Go the system that allows servers operating in different regions to communicate with one another, allowing customers with data residency requirements to upgrade to secure encryption offerings
- Built Grafana monitoring dashboards and identified and corrected deficiencies in Prometheus alert configurations for on-call engineers, increasing alert S/N ratio and enabling ~100% uptime guarantee
- Thoroughly documented architecture of systems I designed, gave internal presentations to ramp up teammates and increase team velocity through parallelization

Software Engineer — Keybase — September 2017 - May 2020

- Managed the Teams Tab redesign, guiding 4 engineers in implementing 30+ cross-platform screens and enabling teams to migrate their company operations to Keybase
- Took initiative in studying the Stellar cryptocurrency protocol ahead of valuable partnership project, designed and implemented frontend-backend protocol for integrated wallet, fulfilling our partnership obligation
- Engineered and developed the cryptographically secure exploding messages UI, elevating Keybase to feature parity with other E2EE chat services

Things I'm proud of

Volunteering

TEALS K12 CS Instructor
Dickinson High School '18-'19
Franklin Twp Food Bank '23

Projects

Tally - Mini crossword scorekeeper
Pillbug - Medication tracker
Feedr.sh - RSS update notifier

Education

Rutgers University Sept '13 - Dec '16
B.S Electrical & Computer Engineering
Summa cum laude