

Levi Schuck

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Summary

Engineering Manager who secured payment systems and cut oncall incidents by 90%. Built platform tooling that reduced cycle times 20x and enabled non-technical QA to deploy independently. Shipped a risk engine that neutralized a card-testing botnet with near-zero false positives. Author of tiny-cbor (800k+ weekly downloads) and reviewer for cryptography publications. Seeking remote leadership role in security or platform engineering.

Experience

EatStreet Madison, WI
Engineering Manager & Team Lead Feb 2021 - Present

- **Responsible for creating and hiring a 9-person remote engineering team** tasked with platform development and integrations with vendors. I mentored reports through multiple promotions and had some occasional hard conversations – including PIPs. We delivered supporting technologies and tools that enabled and enhanced other engineering and non-technical teams. Our work received with praise from employees across the company.
- **Reduced automation error rates from 16% to under 1%** through mentorship and support.
- **Reduced other team cycle times by 20x** with opinionated paved paths for APIs and SPAs.
- Implemented a risk engine in rapid response to a card-testing threat actor, achieving a **near-zero false positive rate** through **realtime signal analysis that identified residential botnet traffic**.
- **Managed the bug bounty program** to resolve issues like audience verification where Sign in with Facebook requests did not properly check the audience before issuing a sign in session.
- Actively communicated to identify and prioritize projects that **accelerated other technology teams** before they understood and could verbalize their own needs or rough edges.
- My redesigned **authentication scheme eliminated automated abuse** such as credential stuffing and mass account creation. This also gave partners a way to integrate their menus **with OAuth**.
- **Shifted company culture to adopt phishing resistant hardware tokens** for AWS and SaaS identity.
- Directed app teams to **adopt tokenized payments**, offloading sensitive details away from our infra.
- **Year over Year PCI compliance** with no remediations through proactive R&D e.g. protecting Single Page Applications from Web Skimming on Amazon CloudFront.

Sr. Software Engineer May 2017 - Jan 2021

- **Migrated 3000 origins to HTTPS** with an ACME using HAProxy, and S3 & NLB + ECS.
- **Redesigned tasks to scale in AWS** as EatStreet had a **3x surge of customers** during the pandemic.
- **Secured ACH records** with AWS KMS and Google Tink; migrated passwords from MD5 to BCrypt.
- Designed and delivered **EatStreet's most successful partnership** with Google's ordering platform.

Epic Systems Verona, WI
Software Developer Jun 2014 - March 2017

- Integrated reference lab clinical results across organizations for 10,000+ tests/month/lab.
- Represented the clinical lab division in cross-org councils for routing and delivery of results to physicians, nurses, and patients via Health Level Seven.

Education

Brigham Young University

B.S. Computer Science - 2014

Projects

tiny-cbor

Light weight CBOR encoder / decoder in TypeScript - 800k+ downloads per week and is a dependency of the [Passkey demo by Google Chrome Labs](#).

tiny-webauthn

WebAuthn and passkey library built from the ground up on web standards.

render-html

Rendering HTML to SVG or PNG on Cloudflare workers with Yoga, Satori, and ReSVG.

JaneTLS

Mbed TLS wrapper and more for the Janet programming language.

Skills

Programming Languages

Expert: Java, JavaScript, TypeScript; *Proficient in:* C, Rust, Python

Databases, Services, and Cloud Infrastructure

Expert: AWS ECS & Fargate, IAM, KMS, Route53, Secrets Manager, Systems Manager, SQS, CDK, Cloudflare Workers

Proficient: AWS ACM, CloudFormation, Cloudwatch Logs, Events, Alarms, Elastic Load Balancing, Lambda, Lambda@Edge, SNS, Let's Encrypt ACME, MySQL, Redis

Competent: AWS DynamoDB, CloudFront, PostgreSQL

Other Technologies

Git, Atlassian Jira, Confluence, GitHub, Mac, Linux, Docker, IntelliJ, VS Code, Cursor, Claude, AWS CDK, Vite, React, OAuth, OpenID Connect, Zebra ZPL, Epson ESC/P, WebSerial, WebUSB

Awards

Eagle Scout

2010

Boy Scouts of America

Historic Cemetery clean up and restoration

Charity

Two Ferrets 501(c)(3) - EIN 88-2475838

2022 - Present

As Director of Technology for a \$130k/yr non-profit I architected the online and on-site infrastructure for a convention of 2800. This included direct reporting to the board of directors, annual budgeting, spending authority, and managing a team of 6. We've raised \$122,000 in charity for a local domestic animal welfare organization since I joined the mission.

Publications

Pre-Release reviewer for LATKE: A Framework for Constructing Identity-Binding PAKEs

2023

Pre-Release reviewer for Base64 Malleability in Practice

2022

Technical Editor for The Rook's Guide to C++

2013