

Ryan Slama

[RyanSlama.com](https://ryan.slama.com)

[Github.com/glitched](https://github.com/glitched)

Experience

Slack • Product Security

Senior Software Engineer

Jul 2022 - Present

Software Engineer II

Aug 2021 - Jul 2022

Software Engineer

Feb 2021 - Aug 2021

Associate Software Engineer

Apr 2020 - Feb 2021

- Spearheaded a high-priority project to mitigate a critical security risk, successfully reducing SSH access to essential production areas by 95%
- Led design and development of an internal tool for running one-off tasks asynchronously via a Job Queue, storing artifacts for logging in S3
- Gained consensus and coordinated the transition to the new system across all Slack backend engineering teams
- Created an innovative codemod to automate a complex migration task, saving hundreds of hours across the backend engineering team and reducing the project's timeline by months
- Played a key role in developing a high-performance sidecar using gRPC and Golang, vital for Slack's secure crypto operations. Sustained peak traffic of ~1.5M requests per second
- Spearheaded overhaul of credential management patterns, reducing 9 credential reliability incidents in a quarter to 0 in the following quarter
- Engineered a real-time, distributed Kafka consumer in Golang that monitors logs for sensitive data, expediting detection and remediation
- Streamlined an AWS Route53 misconfiguration detection service, cutting scan times by 87% and halving false positives
- Revamped a user session security project under tight deadlines, using innovative techniques. Enhanced system performance, maintainability, testability, and extensibility
- Developed new 2FA library to reduce risk of improper use and rewrote/redesigned the frontend for our Typescript/React infrastructure
- Mentored junior engineers and also led my team's internship program, providing guidance, scoping, and structure to boost their productivity

Slack • **Software Engineer Intern**

Summer 2019

- Designed Flask service detecting vulnerabilities in dependencies
- Created React frontend tracking findings and remediation status

Slack • **Software Engineer Intern**

Summer 2018

- Reached MVP 6 weeks ahead of schedule
- Built Vue/Flask service automating internal security review process

Goodyear • **Software Engineer Intern**

Summer 2017

- Developed an extensible, cascading authentication system
- Redesigned a global app homepage enhancing usability and accessibility

Education

Cornell University | Engineering

B.S. of Computer Science

Cum Laude, GPA 3.47 / 4

Graduated early, Dec. 2019

McMullen Engineering Scholar

Dean's List, last 4 of 7 semesters

Relevant Coursework

Functional Programming • Discrete Structures
Advanced Artificial Intelligence • Algorithms
Language & Information • Computer Vision
Data Driven Web Apps • Operating Systems
Digital Logic & Computer Organization

Kleiner Perkins Engineering Fellow

Selected as 1 of 48 from 3000 applicants for the fellowship in 2019

Conference Talks

DEF CON 28: App Sec Village

10,000 Dependencies Under the Sea

- Described internal tooling I built scanning for vulnerable dependencies
- Covered operationalization of processes to fix detected issues

LoCoMocoSec 2020

Canary in the Datamines: Using Log Canary to find PII

- Shared tool design for detecting and alerting on sensitive data in logs

Skills

Languages

Go, Python, Typescript, Hack, Javascript

Tools & Frameworks

React, Redux, FastAPI, Flask, gRPC
Kubernetes, Docker, Kafka, Figma

Databases

Postgres, MySQL, Vitess

Observability

Open Telemetry, Honeycomb, Prometheus, Grafana (RED/USE)