

# CHANDLER FORREST

Full Stack Software Engineer

📍 Seattle, Washington

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## SUMMARY

Full stack software engineer with 5+ years of experience creating high throughput/low latency APIs, scalable data pipelines, automated testing frameworks, user-driven websites, and easy-to-use mobile applications.

## TECHNICAL SKILLS

### Languages

Python, TypeScript, JavaScript, Go, Java, C++, C

### Web Development

Next.js, React, HTML, CSS, Node.js, Flask, Tailwind, MUI, Express, Auth0

### Databases

PostgreSQL, Cassandra, ScyllaDB, MongoDB, Redis, Elasticsearch

### Infrastructure

AWS, GCP, Docker, K8s, Kafka, NGINX, Jenkins, Terraform, Cloudflare

### Tools + Programs

Git, Bash, Unix, VSCode, Copilot, Postman, Photoshop, Illustrator, Resolve

## EXPERIENCE

### Software Engineer II

November 2024 – Current

#### RADAR

Remote / San Diego, CA

- Implemented a LiDAR calibration pipeline that updates installed sensor positions to sub-millimeter precision and 3D orientations to sub-degree precision within a retail store using Go, Cloud Run, and Flask, increasing RFID tag read positioning by 50 centimeters per degree of correction, while also boosting tag read coverage.
- Built a real-time ingestion pipeline for all manufacturing test data using Python, Kafka, and PostgreSQL, and developed a Next.js app to ensure manufacturers were passing all testing. These tools reduced sensor defect rates by 0.2% and saved RADAR's hardware teams several hours of time each week in manual checks.
- Created an inventory tracking API that details the lifecycle of RADAR's store-installed hardware by scraping vendor emails, querying internal databases, and monitoring RMA workflows via Python and PostgreSQL.

### Software Engineer III

April 2019 – April 2022

#### Proofpoint

Remote / Sunnyvale, CA

- Created an alerting system that lets analysts directly notify customers of extremely high-risk emails missed within the detection pipeline. Within 3 months of launching, it helped catch \$260 million in confirmed preventable losses. The system was a feature within our React + Node.js email search engine web app.
- Implemented a new safelist data source and APIs for Proofpoint's high-volume email rating and scoring Java gateway, which processes 1.5 billion emails daily.
- Maintained and improved internal email search engine web app (React, Node.js, Elasticsearch) by optimizing query performance, eliminating hangups, adding robust logging and Grafana monitoring, abstracting service configurations, and implementing user-requested features, all while getting FedRAMP certification.

## PROJECTS

### Pokémon GO Copy - <https://www.pokemongocopy.com/>

January 2024 - March 2024

- Designed and programmed a mobile-first web application that helps Pokémon GO players nickname their Pokémon in Next.js, JavaScript, React, Python, Flask, HTML, and CSS. The app has hundreds of monthly users.

### GoGaucho - <https://gogauchos.app/>

May 2018 - January 2019

- Oversaw a team of 5 developers to convert multiple Flask apps into one cohesive Express.js server.
- Formalized the team into an on-campus group, grew the team size from 6 to 18 members, and increased the user count from a few hundred to 3,500 daily users, which was 73% of UCSB's freshman student population.

## EDUCATION

### B.S. Computer Science

September 2014 - April 2019

University of California, Santa Barbara

Santa Barbara, CA