

# 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

<b>Languages</b>	Python, JavaScript, TypeScript, Java, C++, C
<b>Web Development</b>	Next.js, React, HTML, CSS, Tailwind, Node.js, Express, Flask
<b>Databases</b>	MySQL, PostgreSQL, Cassandra, ScyllaDB, MongoDB, Redis, Elasticsearch
<b>Infrastructure</b>	AWS, Docker, NGINX, Jenkins, Puppet, Cloudflare, Vercel
<b>Tools + Programs</b>	Git, Bash, Unix, VSCode, IntelliJ, Postman, Photoshop, DaVinci Resolve

## PROJECTS

### Pokémon GO Copy

January 2024 - March 2024

<https://www.pokemongocopy.com>

Oxnard, CA

- Designed and programmed a mobile-first web application with several hundred monthly users that helps Pokémon GO players nickname their Pokémon in Next.js, JavaScript, React, Python, Flask, HTML, and CSS

### GoGaucho

May 2018 - January 2019

<https://gogaucho.app>

Santa Barbara, CA

- 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.

## EXPERIENCE

### Proofpoint Inc.

April 2019 – April 2022

Software Engineer III

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.
- Led the database selection for a machine learning feature store after thorough research and benchmarking.
- Created migration ETL jobs in Python to bootstrap data into the ML feature store backed by ScyllaDB.
- Ensured new and existing services complied with internal security guidelines as team security lead.

### UCSB Programming Languages lab

June 2018 – December 2018

Research Assistant & Developer

Santa Barbara, CA

- Created an experiment runner to help validate correctness bugs for SMT solvers using Python and SQL.

### Liaison Technologies

June 2017 – December 2017

Application Development Intern

Santa Barbara, CA

- Fixed bugs and fulfilled user-requested features for the Java backend of one of Liaison's flagship products.
- Wrote end-to-end API tests in JavaScript and integrated them into a build automation pipeline using Jenkins.

## EDUCATION

### University of California, Santa Barbara

September 2014 - April 2019

B.S. Computer Science

Santa Barbara, CA