# CHANDLER FORREST
## Full Stack Software Engineer

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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

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