CHANDLER FORREST

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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, JavaScript, TypeScript, Java, C++, C
Web Dev – Next.js, React, HTML, CSS, Tailwind, Node.js, Express, Flask
Tools + Programs – Git, Bash, Unix, VSCode, IntelliJ, Postman

Databases – MySQL, PostgreSQL, Cassandra, ScyllaDB, MongoDB, Redis, Elasticsearch
Infrastructure – AWS, Vercel, Docker, NGINX, Jenkins, Puppet

EXPERIENCE

Software Engineer III – Proofpoint Inc.   *April 2019 – April 2022*
- Created an alerting system in Node.js that allows analysts to 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.
- 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.
- Fixed major performance issues, added more robust logging/monitoring, abstracted service configuration, implemented user-requested features, and got FedRAMP certification for an internal use email search engine and feedback Node.js web app. The search engine was backed by Elasticsearch.
- Selected database for new machine learning service feature store after research and benchmarking.
- Created migration ETL jobs in Python to bootstrap data into the machine learning service feature store.
- Ensured new and existing services complied with internal security guidelines as team security lead.

Back-End Project Manager – GoGaucho (UCSB's Mobile App)   *May 2017 – March 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 to 3,500 users per day - which was 73% of the freshman student population.

Research Assistant & Developer – UCSB Programming Languages λab   *June 2018 – December 2018*
- Created an experiment runner using Python and SQL to help validate correctness bugs for various satisfiability modulo theories (SMT) solvers.

Application Development Intern – Liaison Technologies (now OpenText)   *June 2017 – December 2017*
- Wrote an extensive API test suite and integrated it within the nightly build job for one of Liaison's flagship products.

PERSONAL PROJECTS

chan4est.com - Chandler Forrest's Personal Website   *April 2024 - now*
- Personal website written in Next.js, TypeScript, React, HTML, Tailwind, and SQL which hosts my technical portfolio and travel blog.

Pokémon GO Copy – A Pokémon GO Nicknaming Tool   *December 2023 – February 2024*
- Mobile first website written in Next.js, JavaScript, React, Python, Flask, HTML, and CSS that helps nearly 2000+ Pokémon GO players nickname Pokémon monthly.

EDUCATION

B.S. Computer Science *April 2019*
University of California, Santa Barbara (UCSB)