Will Trinh

San Francisco, CA • (714) 728-0796 • williamltrinh@gmail.com • linkedin.com/in/williamtrinh • github.com/willtrinh

TECHNICAL SKILLS

Back End: MySQL, MongoDB, Node.js, Express, Postman, Java, Python, C++, C
Front End: JavaScript (ES5/ES6), React/Redux, HTML/CSS, jQuery, Styled-Components, Babel, Webpack
Testing/Deployment: K6, Loader.io, New Relic, Docker, Redis, AWS, Nginx, Heroku, Mocha/Chai, Jest/Enzyme

PROFESSIONAL EXPERIENCE

Software Engineer | Infosys, *San Francisco, CA* Aug 2019 - Nov 2020

Software Engineer Consultant - Capital Group

- Increased performance and minimized human errors by automating the software delivery process with **Jenkins**.
- Reduced company's costs and time by containerizing monolithic applications into microservices using **Docker**.

Software Engineer Consultant - Charles Schwab

- Boosted employee productivity and workflow by migrating call records from legacy systems to the **Verint** platform.
- Enhanced operations and reduced financial losses with improved system reliability and connectivity.

SOFTWARE DEVELOPMENT

Backend Software Engineer | ReviewsAPI: *Multi-layer backend infrastructure* github.com/willtrinh/ReviewsAPI

- Inherited legacy front-end codebase and designed a multi-layered backend infrastructure to replace existing system capable of handling 200 RPS under heavy load and optimized to handle 1200 RPS with 30 million records of product reviews data stored in **MySQL** database, achieving 500% throughput increase
- Increased fault tolerance and system reliability by horizontally scaling three **Node/Express** servers on **AWS** t2.micro instances with **NGINX load balancer**, reducing average response time from 3500ms to 65ms, reducing error rate from 25% to 0%
- Decreased stress testing cycle length by identifying system bottlenecks using **K6, Loader.io,** and **New Relic**

Full-stack Software Engineer | Spendi: *Voice-controlled budget tracker* spendi.netlify.app

- An **MVP** web application built in 2 days that allows users to input their budget with ease using their microphone.
- Trained and integrated **Speechly API** into **React** application to translate user **speech-to-text** and automatically fill out their budget form and reflect new changes on budget charts with **Chart.js**

Frontend Software Engineer | Superb: *E-commerce web application* github.com/willtrinh/Superb

- Designed and developed interactive Product Overview module using **React** and **Styled-Components**
- Performed component testing with **Jest/Enzyme** and **React testing library** to achieve 70% test coverage
- Implemented **React.lazy** and suggested optimizations to increase **Lighthouse** performance score from 50 to 88 and reduce time to first contentful paint from 2.9s to 0.8s

Full-stack Developer | YelpCamp: *Yelp-like web application for camping enthusiasts* ycamp-demo.herokuapp.com

- Developed a **RESTful** web application that allows users to browse and share campgrounds.
- Implemented user authentication/authorization, password encryption, fuzzy searching, posts and comments CRUD operations, user profile, pagination, Google Map location, responsive web design, MVC architecture.
- Technologies: **HTML/CSS, JavaScript, Express.js, Google Map API, MongoDB, Node.js, Bootstrap, Heroku**

Full-stack Software Engineer | Webflix: *Netflix-inspired movies web application* webflix-827b1.web.app

- Designed and developed a web application that imitates Netflix UI layout that allows users to browse and search movies and tv series. Deployed production-ready web application using Firebase hosting.

EDUCATION

Hack Reactor | *Advanced Software Engineering Immersive – San Francisco, CA* 2021
University of California-Irvine | *Bachelor's Degree in Computer Science – Irvine, CA* 2019
Relevant coursework: Design & Analysis of Algorithms, Data Structures, Graph Algorithms, Database Management, Concepts in Programming Languages, Operating Systems, Computer Network, Project in Database and Web Applications, Information Retrieval, Machine Learning & Data Mining, Discrete Math, Statistics, Linear Algebra.