Tyler Truong

San Francisco, California

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Technical Skills

Strong: Javascript (ES6), HTML, CSS, SASS, React, Redux, Node, Express, SQL, ElasticSearch, WebRTC, Mocha, Chai
Experienced: AngularJS, Backbone, jQuery, MongoDB, Redis, Semantic UI, Webpack, Docker, AWS SQS, EC2, RDS

Professional Experience

omNovia Technologies | San Francisco, California
Software Engineer 2017-2018

- Led front-end development with reusable React components and SASS classes, for compatibility across platforms, screen sizes and browsers and localized across various regions
- Managed application state using Redux, improving ease of developer workflow and scalability
- Developed audio, video and screen sharing capabilities using WebRTC to present streamlined media to client connections in real-time for effective presentation and communication
- Ensured optimal client experience by managing offline, “lie-fi”, disconnects, and intermediate client states

DTS, Inc | Calabasas, California
Engineer II, Audio Quality Analysis 2013-2017

- Wrote, planned and implemented test suite of over 1000 tests for DTS:X and DTS:MA encoder, decoder, upmixing, rendering engine and streaming technologies
- Crafted benchmarks for audio codec implementation and identified potential bug fixes
- Ensured maximum test coverage within time constraints to ensure highest quality SDK was released

Engineer I, Certification 2010-2013

- Developed and certified CAT, an internal testing framework
- Reduced testing time of DTS:MA encoding platform by breaking up end-to-end tests into modular unit tests
- Performed regression testing with every encoder update to ensure backwards compatibility
- Created a series of smoke tests to be applied for minor updates

Software Engineering Projects

Modelbnb Recommendation, Software Engineer
Modelled Airbnb booking behavior to determine the effect of price on bookings.

- Integrated recommendations engine using a service-oriented architecture to improve application modularity
- Utilized Amazon SQS and consumed 1000 msgs/second for decoupled, high-throughput processing pipeline
- Architected PostgreSQL and ElasticSearch database for efficient retrieval of 40M bookings and 5M listings
- Optimized latency down to 200ms from 12 seconds at a rate of 100 queries/sec with over 40M entries for increased throughput between system services
- Created analytics platform with Kibana for real-time performance visualization and system service logging
- Dockerized application for easy deployment onto Amazon EC2 and RDS services

Travel With Friends, Software Engineer
Itinerary planning application with real-time social interactions.

- Developed live notifications and private room messaging with Socket.io for reduced latency
- Designed storage schema with Redis for memory caching and MySQL to maintain balance between persistence and permanent storage

Trade League, Software Engineer
Stock market game that simulates day trading.

- Generated continuous charts with Victory for fast and dynamic data visualizations
- Authenticated users with Passport and Google OAuth, for secure and efficient signup/login workflow

Education

Hack Reactor, Advanced Software Engineering Immersive Program 2017

University of California, Berkeley, B.A. in Applied Mathematics 2010
Coursework: Structure of Computer Programs, Symbolic Programming, Linear Algebra, Probability, Numerical Analysis