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Harrison Lau

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Technical Skills

Front end: Javascript (ES6), Typescript, React, React Native, Redux, Webpack, Styled-Components, SASS, HTML, D3
Back end: Node.js/Express, PostgreSQL, MySQL, MongoDB, Cassandra, Firebase, NextJS, Nginx, Passport.js, Socket.io
Relevant: Git, Docker, AWS (EC2, S3), Heroku, Google Cloud Platform, CI/CD, Mocha/Chai, Jest/Enzyme, Jasmine

Projects

friendTrips, Software Engineer - *A travel planning app built with React, Express, PostgreSQL and Socket.io*
- A social, travel planning application -- conceptualized, developed, and delivered in 10 days.
- Defined front end component tree and state management architecture using Redux and React Context.
- Designed authentication routes and managed user logins and sessions using Passport.js.
- Built a websocket based group chat, allowing any number of authorized users to communicate in real-time.

ShoeEmporium, Software Engineer - *A full-stack online retail web app using React, Express, and Cassandra.*
- Working with legacy code, performed database benchmarking to determine best fit to support the microservice.
- Designed RESTful API routes to effectively query over 10 million records from Cassandra database at web-scale.
- Horizontally scaled server layer across 3 AWS EC2 instances, leveraging Nginx as a load balancer.
- Performed stress testing using K6 and New Relic, achieved a throughput of 1000 requests/sec.

StyleSelector, Software Engineer - *A full-stack online retail web app built with React, Express and PostgreSQL*
- Followed agile practices to design and deploy a photo carousel and product preview microservice in 3 weeks.
- Worked collaboratively to deploy an additional 3 microservices on individual AWS EC2 instances with Docker.
- Optimized Google SEO performance score of 1 to 99 by implementing gzip compression and image caching.
- Developed unit and integration tests with Jest and Enzyme, practiced TDD to achieve 82% code coverage.

Relevant Experience

SIDE PRJCT - *Software Engineer*   2021
- Fully remote team, based all over the world, following Agile development methodologies to design and build a professional development application. Worked alongside Product and Design teams to create the web platform.
- Front-end development with React and Typescript following atomic design principles.
- Perform code reviews, participate in sprint planning, and assist in defining development workflows.

Hack Reactor - *Lead Software Engineering Immersive Resident, Toy Problem Q&A*   2020-2021
- Lead a team of 7 software engineers working to identify improvements to curriculum and resident program.
- Supported students across a number of different campuses as a resident engineer. Assisted struggling pairs on any number of issues ranging from getting unstuck in their current sprint, to helping students reach a deeper understanding of Javascript, modern web development technologies, and Agile development.
- Hosted office hours twice a week where students are invited to ask questions (specifically) about any of the daily coding challenges they have completed as a part of their curriculum.

Chinatown Community Development Center - *Database Systems Administrator*   2015-2020
- Certified Salesforce Administrator responsible for two Salesforce instances, supporting 45 users
- Owned all aspects of database design, configuration, and administration. Identified business requirements and created efficient workflows and to help staff access, manage, and analyze data relevant to their work.
- Lead training as part of the department onboarding, and on an adhoc basis as new features were added.
- Worked directly with vendors to support plugins and other add-ons related to our Salesforce instance.

Education

Hack Reactor - Software Engineering Immersive   2020
University of California, San Diego - Bachelor of Arts, Urban Studies and Planning, Sociology   2013

Personal

Music enthusiast, AutoCAD hobbyist, sourdough baker before it was cool
Favorite tabletop games include: Chess, Settlers of Catan, Bang!, Munchkin, Qwixx
Cat person