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Richard Hai

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Technical Skills

Front End: JavaScript ES6, React/ Redux, Vue.js, HTML5/ CSS3, jQuery, Sass, Bootstrap, MVC Architecture
Back End: Node.js, Express.js, PostgreSQL/ MySQL, MongoDB, Service Oriented Architecture (SOA)
Tools: Webpack, Babel, Docker, Jest/ Enzyme, Mocha/ Chai.js, AWS, Heroku, New Relic, Artillery.io, Mongoose.js, Sequelize

Projects

Esky | A client-facing eCommerce store for handmade goods built in **React.js** | github
- Created dynamic front-end components with React for easy controlled state management
- Deployed to Amazon Web Services EC2 with Docker containers to connect RESTful microservices in a service-oriented system architecture
- Designed microservice architecture to easily store, retrieve, and render data through an Express proxy server to multiple PostgreSQL databases

Spotify Music Player | Custom UI to play any song in Spotify's database, built in **React.js** | github | demo
- Set up a backend server to handle the oAuth 2.0 process of acquiring a temporary authorization token by initiating multiple requests and callbacks with client/ secret ids to route back to the frontend application
- Deployed an intuitive and beautiful custom UI to play/ pause any searchable song on Spotify

Greeting Card Generator | A unique greeting card generator built with **Vue.js** | github | demo
- Designed an aesthetically functional single page app with Vue.js to preview custom made greeting cards
- Uses Google Firebase to store images that allows the user to reposition the picture dynamically on the app

Todo-List Reminder | A todo-list app built with **React.js, Redux, and web cookies** | github | demo
- A simple and responsive todo-list reminder app that will keep track of important tasks and when they are due

SeaBnB | Scaled a service-oriented seaside lodging and hospitality app | github
- Conducted multiple A/B tests on legacy codebase to optimize PostgreSQL and MongoDB schemas for efficient seeding and querying
- Created an ExpressJS server to efficiently handle over 1K requests per second on a MongoDB containing 10 million records
- Designed and performed load testing and benchmarking with Artillery.js and New Relic to have MongoDB efficiently handle over 1k RPS at sub 100ms latency

Experience

Founder | The Hai Store   2014 - 2018
- Created python scripts and macros to reduce manual labor by over 50% to optimize workflow
- Created, marketed, and managed a successful online retail business by trading and selling tens of thousands of virtual items every month to thousands of clients through Valve's Steam trading API
- Annually increased sales by over 300% with peak annual sales over $100k
- Owned the number one most valuable inventory in the world on Steam's database across over 100 million inventories in 2015

Education

Hack Reactor | Advanced Software Engineering Immersive | San Francisco, CA   201.8
U.C. Berkeley | B.A.Applied Mathematics in Operations Research | Berkeley, CA   2017
- Center for Entrepreneurship & Technology: Concentration in Engineering Leadership

Personal

Hobbies: photography, videography, eSports, live storytelling, electronic music, biking, economics