

NICK CAI

SOFTWARE ENGINEER

CONTACT

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TECHNICAL SKILLS

FRONT END

Javascript · HTML5 · CSS3
ReactJS · AngularJS · Backbone · Redux
jQuery · Liquid

BACK END

NodeJS · Express · MongoDB/Mongoose
MySQL/Postgres · RESTful API Development

TESTING/DEPLOYMENT

Jest · Mocha · Chai · Travis CI · AWS · Docker
Artillery.io · Loader.io · New Relic

DEVELOPER TOOLS

Cit · NPM · Webpack · Babel

OTHER

Mandarin · Microsoft Office · Logic Pro · Shopify

EDUCATION

- 2018 **Hack Reactor**
Advanced Software Engineering Immersive
- 2017 **University of California, Santa Barbara**
B.S. in Financial Mathematics & Statistics

SOFTWARE ENGINEERING APPLICATIONS

Online Marketplace and Hospitality Service

ReactJS | Styled Components | Docker.io | MongoDB | NodeJS | GruntJS
AWS

- Implemented **RESTful API** for its layered system, statelessness of the server, and scalability to develop the Airbnb listing information page
- Applied **CSS styled components** to achieve code modularity, readability, reusability, and ease of debugging
- Utilized **Docker.io** to compose a consistent developer's environment, eliminate cross-platform/OS/version issues, and speed up code integration and deployment

Crowd-Sourced Review Forum

Postgres | MongoDB | Docker.io | NodeJS | Artillery.io | Loader.io | New Relic
AWS EC2 | AWS RDS

- Used **NO-ORM** to reduce the layer of complexity and improved the average query time by **0.7ms**.
- Indexed most frequently used columns to eliminate full table scans and improved queries to a **constant-time lookup**.
- Utilized **micro-service architecture** to improve the ease of maintenance, monitoring and created **polyglot persistence**.
- Implemented **load-balancer** and **horizontally scaled** the application using EC2, which efficiently handled over **1k Request Per Second** with an average response time of **2.57ms** and **0% error rate**.

I HATE YOU

MongoDB | ExpressJS | ReactJS | NodeJS | Semantic UI

- Built a **Full-Stack web application** that generated a humorous insult when user entered a name
- Allowed user to save or delete insults based on their preference
- Created **RESTful NodeJS APIs** that communicated with other web APIs

PROFESSIONAL EXPERIENCE

2018-Present **Warren Endeavor**
Software Engineer

- Developed, implemented, and maintained high-traffic e-commerce websites and software applications
- Reduced users bounce rate by 7% by optimizing UX using HTML5 History API and Web Storage
- Applied strategic design philosophy to increase conversion rate by developing a customizable lookbook using the Shopify API & Content Management System
- Conducted data analysis of landing page performance, via Google Analytics, to identify clear, goal-driven optimizations