Jonah Choi
Full Stack Software Engineer

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TECHNICAL SKILLS

Front-End | JavaScript (ES5, ES6), TypeScript, React, Next.js, HTML, CSS, TailwindCSS, Figma

Back-End | Node.js, Express, PostgreSQL, MySQL, MongoDB, Firebase, RESTful API, Socket.io

Testing/Deployment | Jest, React Testing Library, Mocha, Chai, Ava, NGINX, AWS EC2, Loader.io

Developer Tools | VSCode, Vim, Git, GitHub, npm, Webpack, Babel, Agile Workflows, Kanban

PROFESSIONAL EXPERIENCE

Code for SF | Open Source Full Stack Developer | 04/2023 - Present
Typescript | React | Next.js | CSS | MaterialUI | PostgreSQL | tRPC | Ava | Kanban

- **Led and worked in teams of 2-4 engineers** to tackle **Kanban** board issues from backlog to completion by brainstorming solutions, pair programming, and performing code reviews.
- Restructured CSS architecture using **CSS modules** and **Typescript declaration files**, making the codebase maintainable and type-safe, while providing a more consistent user interface.
- Leveraged **Ava** to develop unit and integration test cases, ensuring the reliability and accuracy of the system and enabling faster development cycles.
- Collaborated with the **product design team** to discuss core user features and modify designs/implementations.

Galvanize Inc | Software Engineer Resident | Contract | 11/2022 - 03/2023

- Resolved **200+ student issues**, identifying and discussing opportunities for optimization, improvement, and bug fixes, receiving an average **95% satisfaction rate** in student feedback.
- Guided **100+ students** in learning computer science fundamentals, JavaScript, and modern web technologies.
- Empowered **20+ students** through small-group **tutoring sessions**, fostering their autonomy and problem solving.

SOFTWARE APPLICATION DEVELOPMENT EXPERIENCE

Full Stack Software Engineer | Braking Friendships | 10/2022 - 11/2022
JavaScript | React | CSS | HTML | Framer Motion | Socket.io | Node.js | Express | MongoDB
Card game simulator, featuring Exploding Kittens, with online multiplayer, chat, and customizable profiles.

- Integrated a shared game state using **React Hooks** and **Socket.io** to update state in real time, allowing connected clients to play and chat with up to **4 players** in the same lobby.
- Leveraged **Framer Motion npm package** to animate cards and add interactivity, enhancing the user experience.
- Accomplished 100% of project deliverables and sprint deadlines on time using **Agile Methodologies**, on a team of six engineers, and delivered the app to the client within four weeks.

Full Stack Software Engineer | Gnicchi | 09/2022 - 10/2022
JavaScript | React | Node.js | Express | PostgreSQL | NGINX | AWS EC2 | Loader.io
Fashion e-commerce app linked to microservice architecture backend, optimized to withstand web-scale traffic loads.

- Engineered **Node.js** backend with decoupled microservice architecture and deployed to **EC2** using **NGINX**; This resulted in improved response times and scalability, enabling sustained throughput of **1600 RPS, a 200% increase** in performance metrics compared to previous configurations.
- Achieved **>80% coverage** with unit, integration, and end-to-end tests using **Jest** and **React Testing Library**.
- Formulated an **ETL** process using **PostgreSQL**, importing **3 datasets w/ >12M data points** from the old service.

EDUCATION

Hack Reactor | Certificate in Advanced Software Engineering | 2022

- 12-week software engineering immersive program with over 1000+ hours of coding. Full-Stack development with JavaScript, React, Express, PostgreSQL, MongoDB, and MySQL in an agile environment.

University of California San Diego | Bachelor of Science in Physiology and Neuroscience

- Honors: magna cum laude (3.9 GPA)