

Jonah Choi

Software Engineer

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jonahchoi.vercel.app

Technical Skills

Front-end | JavaScript (ES5/ES6), TypeScript, React.js, HTML, CSS, TailwindCSS

Back-end | Node.js, Express.js, PostgreSQL, MySQL, MongoDB, Firebase, Nginx, RESTful API

Testing/Development | Jest, Mocha, Chai, AWS:EC2, Loader.io

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

Professional Experience

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

- Conducted 200+ rigorous code reviews, identifying and discussing 400+ opportunities for optimization, improvement, and bug fixes, resulting in a 95% satisfaction rate.
- Guided 100+ students in mastering CS fundamentals, JavaScript, modern web technologies, and best practices.
- Empowered 20+ students through small-group technical support, fostering their autonomy and problem-solving skills.

Software Development Application Experience

Braking Friendships | **Full Stack Engineer** | github.com/jonahchoi/Braking-Friendships 2022

Play the card game, Exploding Kittens, online with up to four players.

- JavaScript, React.js, CSS, HTML, Framer Motion, Node.js, Express.js, Socket.io, MongoDB
- Architected game mechanics server using Socket.io, allowing connected clients to send and receive events instantly with players in the same room.
- Transformed the UI by implementing Framer Motion animations, enhancing the overall user experience and immersion.
- Developed highly modular and dynamic components for the product, allowing for easy integration and reuse in the development of other card games.

Atelier | **Back End Engineer** | github.com/jonahchoi/Atelier-QnA-API 2022

A revamp of a RESTful API for an e-commerce store from a monolithic to microservice architecture.

- Node.js, Express.js, PostgreSQL, Nginx, AWS:EC2
- Engineered the system architecture of a questions and answers API to serve over 3 million products' information.
- Optimized database queries for a read-heavy system by implementing PostgreSQL aggregate functions, reducing query times from 2s to 0.3ms and delivering a 50% faster response time.
- Improved system reliability by deploying EC2 instances behind an Elastic Load Balancer, achieving 1600 RPS with a 100% throughput increase and response times under 1000ms.

QuickSend | **Full Stack Engineer** | github.com/jonahchoi/QuickSend 2022

Easily and conveniently upload and send files with the ability to scan a personal QR code to share directly to someone's inbox.

- JavaScript, React.js, CSS, HTML, Framer Motion, Node.js, Express.js, Firebase
- Integrated Firebase Storage, Firestore, and Firebase Authentication into custom React hooks to manage data transmission and user logins.
- Utilized appropriate authentication and authorization measures, ensuring secure data transmission and storage.

Education

Hack Reactor | Advanced Software Engineering Immersive Program 09/2022 - 11/2022

UC San Diego | B.S. Physiology and Neuroscience 09/2016 - 06/2020

- Honors: magna cum laude (3.9 GPA)