

# Jonah Choi

## Software Engineer

cjonah227@gmail.com | 626-755-5377 | [github.com/jonahchoi](https://github.com/jonahchoi) | [linkedin.com/in/jonah-choii](https://linkedin.com/in/jonah-choii)

### Technical Skills

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**Front-end** | JavaScript (ES5/ES6), React.js, HTML5, CSS3, 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, SCRUM

### Professional Experience

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**Hack Reactor @ Galvanize | Software Engineer Resident** | San Diego 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

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**Braking Friendships | Full Stack Engineer** | [github.com/jonahchoi/Braking-Friendships](https://github.com/jonahchoi/Braking-Friendships) 2022

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

- JavaScript, React, CSS, HTML, Framer Motion, Socket.io, MongoDB
- Engineered game mechanics using Socket.io, delivering seamless gameplay experiences with low latency.
- Transformed the game board and cards by implementing Framer Motion animations, enhancing the overall user experience and immersion in the game.
- Developed highly modular and dynamic components for the game, allowing for easy integration and reuse in the development of other card games.

**Atelier | Back End Engineer** | [github.com/jonahchoi/Atelier-QnA-API](https://github.com/jonahchoi/Atelier-QnA-API) 2022

Revamped a monolithic backend API for an e-commerce store designed with a microservice architecture.

- 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.
- Deployed two EC2 micro-instances behind an Elastic Load Balancer, sustaining 1600 RPS, a 100% increase in throughput, while maintaining response times below 1000ms.

**QuickSend | Full Stack Engineer** | [github.com/jonahchoi/QuickSend](https://github.com/jonahchoi/QuickSend) 2022

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

- JavaScript, React, CSS, HTML, Firebase
- Built an intuitive and secure file-sharing application using Firebase, allowing users to send files via personal QR codes.
- Utilized appropriate authentication and authorization measures, ensuring secure data transmission and storage.

### Education

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**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
- GPA: 3.9