

Ying Chyi Gooi

Software Engineer Brooklyn, NY

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https://gooi.tech

EXPERIENCE

SpaceCraft // Fall 2018 - Present

Co-creator and Software Engineer — https://spacecraft-repl.com

- Co-created an open-source, in-browser REPL (Read-Eval-Print-Loop) that enables real-time collaboration between users using Node.js, WebSockets, and Docker.
- Implemented state synchronization in the front-end REPL terminal and resolved conflicts through the use of CRDT and eventual consistency techniques.
- Reduced network latency by at least 10% by removing the need to buffer outputs through server-side caching.
- Strengthened security of application through container isolation techniques to prevent user-entered malicious code from affecting the host system.
- Built a reverse proxy server from scratch using Node.js to manage multiple user sessions and to forward requests to the appropriate containers.
- Wrote a detailed case study (https://spacecraft-repl.com/whitepaper) and gave a tech talk at QueensJS Meetup (https://youtu.be/Dehmu9QpLTg).

Full-Stack Web Developer // Spring 2017 - Winter 2018

Freelance

Developed full-stack applications for open-source projects:

• Airline Routes (React)

Built a single-page application that displays information on routes flown by major airlines. Rewrote the SVG map component in Vanilla JS to reduce rendering time of 1700 SVG elements from ~400ms to ~60ms.

Ticket Tracker (Rails/SQL)

Built an application that manages tickets by tracking issues and changes. Optimized ticket count from running N + 1 queries to a single SQL query.

• Coin Exchange (Sinatra)

Developed a digital currency exchange that allows users to buy or sell mocked digital currencies. Integrated with CryptoCompare API to track real-time price data.

Product Support Analyst // Summer 2017 - Winter 2017

Global Atlantic Financial Group

• Built custom Excel productivity tools to automate the formatting of text data and reduced manual processing time from 5 minutes to less than a minute.

EDUCATION

Launch School // Spring 2017 - Winter 2018 Software Engineering and Full-stack Web Development

Drake University // Fall 2013 - Winter 2015

B.S.B.A. Actuarial Science

SKILLS

Back-end: Node.js, Ruby, Rails, PostgreSQL, RESTful APIs **Front-end:** JavaScript, ES6, React/Redux, HTML/CSS

Other: Docker, DevOps