



# Ying Chyi Gooi

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## EXPERIENCE

**SpaceCraft** // October 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
- Engineered state synchronization in the front-end REPL terminal and resolve conflicts through the use of CRDT and eventual consistency techniques
- Reduced WebSockets network latency by at least 10% from 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 forward requests to the appropriate containers and to manage multiple user sessions

**Product Support Analyst** // July 2017- December 2017

Global Atlantic Financial Group — Des Moines, IA

- Analyzed universal life insurance policies and manipulated manual tools in Excel to handle special in-force illustration requests
- Built custom Excel productivity tools to ease data processing

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## PROJECTS

**Airline Routes (React)** <https://bit.ly/airline-routes>

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)** <https://bit.ly/ticket-tracker>

Built an application that manages tickets by tracking issues and changes, similar to the "issues" functionality of Github.

**Coin Exchange (Sinatra)** <https://bit.ly/Coin-exchange>

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.

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## EDUCATION

**Launch School** // January 2017 - December 2018

Software Engineering and Full-stack Web Development

**Drake University** // Graduated in December 2015

B.S.B.A. Actuarial Science

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## SKILLS

**Back-end:** Node.js, Ruby, Rails, PostgreSQL, RESTful APIs

**Front-end:** JavaScript, ES6, React/Redux, HTML/CSS

**Other:** Docker, DevOps