



# Ying Chyi Gooi

Software Engineer  
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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 terminal interface and resolved conflicts through the use of CRDT.
- Reduced network latency by at least 10% through server-side caching.
- Strengthened security of application through container isolation techniques.
- Built a reverse proxy server from scratch using Node.js to manage multiple user sessions.
- Published a technical blog post on Hacker Noon (<http://bit.ly/spacecraft-blog>) and presented at local Meetups (<https://youtu.be/Dehmu9QpLTg>).

### Full-Stack Web Developer // Spring 2017 - Spring 2019

Freelance

- **OMDb Tracker (React/Redux/APIs)**

Published "How I Architected a Single-Page React Application" on freeCodeCamp (<http://bit.ly/react-post>).

Implemented a RESTful JSON API server with Sinatra and Postgres. Built an API client that enables server-side caching.

- **Ticket Tracker (Ruby on 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.

### 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.

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## CERTIFICATION

### Triplebyte certified Front End Engineer // April 2019

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## 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

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## SKILLS

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

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

**Other:** Docker, DevOps