



Ying Chyi Gooi

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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.
- 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 - Winter 2018

Freelance

- **OMDb Movie Tracker (React/Redux/APIs)**
Frontend: Built a single-page application with client-side routing, React Redux, and Redux Thunk.
Backend: Implemented a RESTful JSON API server and built an API client that enables server-side caching.
- **Ticket Tracker (Ruby on Rails/SQL)**
Optimized ticket count from running $N + 1$ queries to a single SQL query.
- **Coin Exchange (Sinatra)**
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

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

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

Other: Docker, DevOps