



Edwin Zhang

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Experience

Waterloop

Back End Software Team

Waterloo, ON

Sept 2017 – Present

- Migrated **Node.js** hyperloop pod communication server to **Go** and decreased latency **by 40%**
- Implemented **I2C** communications channel and **QUIC network protocol** to reduce packet send times **by 3x**

Projects

React Ticket to Ride

github.com/edwinzhng/react-ticket-to-ride

Personal

Nov 2017

- Digital version of *Ticket to Ride* built using **Meteor** and **React**
- Implemented graph algorithms to calculate possible moves

Automatic Cannon

github.com/edwinzhng/automatic-cannon

Personal

Nov 2017

- **Self-aiming cannon** that launches projectiles towards targets
- Engineered automatic servo movement and calculated projectile trajectories using **Python** and **Go**

Aya

devpost.com/software/aya

Finalist and AWS Award - Hack the North

Sept 2017

- **Robotic head** with jaw movement powered by a Raspberry Pi
- Built **Python** backend, worked on label selection algorithm, and integrated **Amazon Web Services** for text-to-speech output, image recognition and facial detection

Messenger LaTeX

devpost.com/software/messenger-latex

First Place - MHacks Nano

Jun 2017

- **Chrome extension** built with **JavaScript** and **MathJax** to render LaTeX in Facebook Messenger with **over 300 users**
- Developed live preview, clicking to copy equations, and PNG rendering

Study Space Executive

studyspacewchs.com

Tutoring Club

Nov 2016 - May 2017

- Designed website using **HTML**, **CSS** and **JavaScript** for high school tutoring club to host study packets in maths and sciences
- Organized and led weekly executive meetings and tutoring sessions for **over 150 students**

Skills

Knowledgeable

C++ // C // Python

Go // JavaScript // React

HTML // CSS // Node

Prior Experience

Java // Meteor

MATLAB // Octave

AWS // MongoDB // SQL

Awards

- **Top 4%** - algorithms contest rating on HackerRank
- **4th** - Calgary Collegiate Programming Contest 2017

Coursework

- Algorithms by *Princeton*
- Machine Learning by *Stanford*

Interests

Underwater Hockey // Music
Cryptocurrency // Video Games
Machine Learning // Hackathons

Education

University of Waterloo

Bachelor of Software Engineering
2017-2022 // Waterloo, ON