Edwin Zhang

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Experience

Waterloop
Back End Software Team
Waterloo, ON
Sept 2017 – Present

· Migrated **Node.js** web server back end to **Go** for hyperloop pod competition team and implemented **I2C** communications channel to reduce latency and packet send times

Projects

React Ticket to Ride
github.com/edwinzhng/react-ticket-to-ride
Personal
Nov 2017

· Fully featured *Zelda* themed version of the board game *Ticket to Ride* built with **Meteor** and **React** *(Currently in progress)*

Goose Cannon
github.com/edwinzhng/goose-cannon
Personal
Nov 2017

· **Self-aiming cannon** that launches projectiles towards targets
· Implemented target tracking and detection with **SkyBiometry** and calculated projectile trajectories using **Python**

Aya
devpost.com/software/aya
Finalist and AWS Award - Hack the North
Sept 2017

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

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 200 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**, **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 100 students**

Skills

Knowledgeable

C++ // C // Python // Java

HTML // CSS // JavaScript

React // Node // Go

Prior Experience

Unreal Engine 4 // Blender 3D

MATLAB // Octave

SQL // MongoDB // Meteor

Relevant Coursework

Algorithms by *Princeton*

Machine Learning by *Stanford*

Complete Unreal Engine 4 Dev Course by *Ben Tristem on Udemy*

Interests

Underwater Hockey // Music

Cryptocurrency // Video Games

Machine Learning // Hackathons

Education

University of Waterloo

Bachelor of Software Engineering

2017-2022 // Waterloo, ON

· 90% Average
· 3.9 Cumulative GPA