Edwin Zhang

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github.com/edwinzhng

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Technologies

C / C++

Python

JavaScript / React / Node

Go

Java

HTML / CSS

AWS

TensorFlow / Keras

SQL

MongoDB

Interests

Underwater Hockey

Music

Machine Learning

Computer Graphics

Cryptocurrency

Hackathons

Experience

Waterloop

Waterloo, ON

Back End Software Co-Lead

Sept 2017 - Present

- Implemented multiplexed QUIC network protocol to reduce data packet transmission latency by 90%
- Built hyperloop pod communication server with Go, decreasing memory usage by 30% from previous Node server

Projects

Desktop Buddy

UofT Hacks

devpost.com/software/desktopbuddy

Jan 2018

- Android background service to remotely control desktop input using voice via Google Assistant and the built-in rotation sensor
- Developed backend infrastructure and networking capability between interfaces using Java and Python

PolyTerrain

github.com/edwinzhng/polyterrain

Dec 2017

 Procedurally generated low-poly environments built with C++ and Unreal Engine 4 using simplex noise and voxels

Automatic Cannon

github.com/edwinzhng/automatic-cannon

Nov 2017

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

Aya

Finalist and AWS Award - Hack the North

devpost.com/software/aya

Sept 2017

- · Robotic head with jaw movement powered by a Raspberry Pi
- · Built Python backend and label selection algorithm
- Integrated Amazon Web Services for face detection, image recognition and text-to-speech output

Messenger LaTeX

First Place - MHacks Nano

devpost.com/software/messenger-latex

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 from scratch

Education

University of Waterloo

Waterloo, ON 2017 - 2022

Bachelor of Software Engineering

· Dean's Honor List Recipient