

edwin zhang

edwinzhang.me
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technologies

- C, C++, JavaScript, Python, Go, Ruby, C#
- React, Redux, Node.js, Rails, Flask, TensorFlow, Keras, GraphQL, Postgres, MongoDB, Docker

experience

Localintel Software Engineering Intern

Calgary • May 2018 – Present

- Developed automated service to generate accessible pdf reports using C# and Angular
- Created visual regression test utility using C# and Node.js to detect frontend changes
- Automated chart data population with Python and MongoDB, saving developers hours weekly

Epoch Full-Stack Developer

Waterloo (Remote) • May 2018 – Present

- Maintaining and developing a social engagement SaaS platform currently being piloted by companies including Deloitte and Thalmic Labs
- Led development of several major features and backend APIs with React, Redux, and Flask

Waterloop Backend Co-Lead

Waterloo • Sept 2017 – Apr 2018

- Managed and led team of 5+ students to design hyperloop software infrastructure
- Built communication server with Go to relay data and manage TCP and UDP connection pools
- Reduced latency by 80% from previous servers with multiplexed QUIC network protocol

projects

Desktop Buddy UofT Hacks, Top 10

Jan 2018

- Android background service to remotely control desktop input using voice
- Integrated the built-in rotation-sensor and Google Assistant with Java and the Firebase API
- Parsed sensor data for mouse input and controlled desktop actions using Python

Automatic Cannon

Nov 2017

- Self-aiming cannon that launches projectiles towards targets
- Engineered automatic servo movement and performed trajectory calculations with Go and Python

Aya Hack the North, Finalist

Sept 2017

- Robotic head capable of object and facial recognition with jaw movement
- Integrated Amazon Web Services for face and image processing and text-to-speech output
- Built Python backend and label selection algorithm for detected objects

education

University of Waterloo Software Engineering

2017 – 2022