edwin zhang

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technologies

- C, C++, JavaScript, Python, Go, Ruby, Scala, C#, Java, SQL
- React, Redux, Node.js, Rails, Django, TensorFlow, Keras, GraphQL, Docker, MongoDB

experience

Localintel Software Engineering Intern · Calgary · May 2018 - Aug 2018

- Coming soon . . .

Waterloop Backend Co-Lead · Waterloo · Sept 2017 - Present

- 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 manual wireless controls with Go
- Calculated projectile trajectories using the SkyBiometry face recognition API 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

Messenger LaTeX MHacks Nano, 1st Place · Jun 2017

- Chrome extension with 400+ users to render LaTeX in Facebook Messenger
- Developed live preview from scratch with JavaScript, clicking to copy equations, and PNG rendering

education

University of Waterloo Software Engineering · 2017 - 2022

- Dean's Honor List Recipient