Joe Zeng

2B Computer Science

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Skills

- Languages: Java, Python, C, C++, JavaScript, HTML, CSS
- Frameworks and Libraries: ¡Query, React.js, Angular.js, Bootstrap, Robolectric
- Development Tools: Git, Android Studio, Gradle, UNIX, SSH, Bash, Vim

Experience

Connected Lab, Software Engineering Intern

- Developed an Android App for a smart home audio system to control smart speakers, implementing support for six different music providers and improving app performance
- Refactored and audited code for Canada's largest bank's mobile wallet app to improve code stability, security and performance
- Wrote unit tests to improve code stability and reduce regression bugs
- · Wrote Gradle scripts to do automatic assertions and remove log statements for release builds

Projects

MyOrchestra - EngHack Project (https://git.io/vtHpB)

Waterloo, ON.

Toronto, ON.

Fall 2015

- Built a web app that allows users to conduct an orchestra using the Myo Armband through arm gestures controlling instrumentals on various devices through bluetooth
- Integrated sound commands with the Web App using React.js and Buzz.js
- The winning project at EngHack UWaterloo

TxtIR - UofT Hacks Project (https://git.io/txtir)

Toronto, ON.

- Constructed Text-based TV remote implementing phone to TV commands
- Used Twilio API to send text commands to an Arduino to send IR signals to a TV

TurnIT - Hack the North Project (https://git.io/turnit)

Waterloo, ON.

- Created Bluetooth motion-activated bike signal light with a Pebble Watch and Arduino
- Detected arm gestures with Pebble's accelerometer to control LED lights on the Arduino
- Designed and 3D printed the casing for the Arduino

TeamRacket - BattleHack Project (https://git.io/vzW0e)

Toronto, ON.

- Developed a web app that tracks a team's productivity and disincentivizes procrastination through monetary punishment
- Programmed the app to track user productivity using Rescuetime's API and charge unproductive team members using Paypal's Braintree API
- Implemented front-end using Angular.js

OpenCV Game - PennApps Project (https://git.io/vzlEY)

Philadelphia, PA.

 Created an OpenCV game that does facial recognition and prompts player to move their face to designated areas while avoiding danger zones within a time limit

Activities

Velocity Technology Incubator, Resident and Entrepreneur

Waterloo, ON.

• A startup residence and mentorship program for entrepreneurial students

University of Waterloo Varsity Tennis, Team Captain

Waterloo, ON.

• Led team to second place finish at OUA Finals

2015 OUA and University of Waterloo Rookie Athlete of the year

Education

Candidate for Bachelor of Computer Science, Co-op University of Waterloo

Waterloo, ON. 2014 – 2019