

Joe Zeng

2B Computer Science

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Skills

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

Experience

Connected Lab, Software Engineering Intern - Fall 2015

Toronto, ON.

- Worked on Android team to develop a smart home audio system and refactor a mobile wallet app
- Enabled application to send music files to wireless speakers via wifi using a third party library
- Refactored user's music library to support lazy loading to change loading structure from pagination to continuous scroll, resulting in feature speed increase of 70% and improved user experience
- Implemented support for music services such as Tidal and Rdio using their developer APIs
- Converted networking calls on the wallet app to use Volley networking to improve response times by 50% and improve code readability
- Wrote Gradle scripts to do automatic assertions and remove debugging code for release builds

Projects

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

Waterloo, ON.

- 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-message 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 logic to track user productivity using Rescuetime's API and charge unproductive team members using Paypal's Braintree API
- Implemented front-end using Angular.js

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