

Joe Zeng

3rd Year Computer Science - University of Waterloo

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Skills

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

Experience

Kik Interactive, Mobile Engineering Intern | May 2016 - Present Waterloo, ON.

- Worked on the bots team to implement client-side features to support the chat bot platform
- Developed new message types to allow for richer chat bot experiences
- Implemented bot searching in Kik's username search screen to increase bot visibility

Connected Lab, Software Engineering Intern | August 2015 - December 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

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

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

Activities

Velocity Technology Incubator, Resident and Entrepreneur Waterloo, ON.

- A startup residence and mentorship program for entrepreneurial students
- Building an app that allows users to curate self-learning guides

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 Waterloo, ON.
University of Waterloo 2014 – 2019

- CS240 - Data Structures and Data Management
- CS241 - Foundations of Sequential Programs
- CS246 - Object-Oriented Software Development
- CS370 - Numerical Computation