



TECHNICAL SKILLS

Languages: Java, Python, C++, C#, SQL

Web Development: node.js, Express, React, AngularJS 1 & 2, jQuery, webpack, SASS, CSS, HTML

Tools: Git, Docker, maven, gradle, MySQL, AWS Lambda, AWS SQS, Espresso, JUnit, JMeter

WORK EXPERIENCE

Application Developer

Jan-May 2016

XE.com Inc.

- ▶ Developed for the XE **Android** app in **Java** and shipped the XE **Android Wear** app
- ▶ Engineered the **Android** app for partner company **RIA Digital**, deployed two-factor authentication to an **ASP.net** endpoint and implemented user session states
- ▶ Managed and developed the Currency Skill Project for the Amazon Echo on **AWS lambda** and built a new testing framework for the Alexa Voice Service with **Java** and **node.js**
- ▶ Prototyped an implementation of the XE Currency Data API in **React** with a **node.js** backend



Lead Frontend Developer

Sep 2014-May 2015

Prime Leaders of York Region

- ▶ Spearheaded the development of the main website using **Bootstrap** and **jQuery**
- ▶ Designed and built **Firebase**-linked **AngularJS 1** module for a responsive mailing list



PROJECTS

Gitalytics

May 2016

- ▶ Constructed a **node.js** web platform to analyze public metrics from the GitHub API and generates statistics for employers to catch commit manipulators, minimal contributors and code plagiarists
- ▶ Performed initial tests on around 200 public profiles and 1400 public repositories
- ▶ Assembled a development team within startup incubator **Velocity** to bring Gitalytics to market

XpressCart

Mar 2016

- ▶ Awarded best use of the Capital One Nessie API at **PennApps XIII**
- ▶ Developed **Android** app for self-checkout from smartphones using the ZXING and Nessie APIs
- ▶ Validated purchased products through a weight sensor attached to an Arduino which communicated with the app through an NFC shield

LeapStacks

Feb 2016

- ▶ Created a **C#** physics simulation in **Unity** with mobile blocks to introduce children to virtual space
- ▶ Deployed at **DeltaHacks II** using the Oculus Rift and Leap Motion Controller

EXTRACURRICULAR

Undergraduate Research Assistant

May-Aug 2016

University of Waterloo Collaborative Systems Laboratory

- ▶ Researched motion mirroring to boost user engagement for large-scale interactive advertisements
- ▶ Generated anthropometric sensing algorithms in **C#** for Kinect

EDUCATION

University of Waterloo

- ▶ Candidate for B.ASc in Systems Design Engineering, Class of 2020
- ▶ Studied iterative design principles and acquired strong prototyping skills to build better products

ACTIVITIES AND INTERESTS

Hackathons, marathon running, piloting prop planes, aerospace technology, indie music