# ETHAN LIANG

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## TECHNICAL SKILLS

**Languages:** Java, Python, C++, C#, SQL
**Web Development:** node.js, Express, React.js, AngularJS 1 & 2, jQuery, webpack, SASS, CSS, HTML
**Tools:** Git, Docker, maven, gradle, mySQL, AWS Lambda, AWS SQS, Espresso, JUnit, JMeter

## WORK EXPERIENCE

### Software Developer                                    Jan-May 2016
XE.com Inc.

- Developed for the native XE Android App 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 Application 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.js 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 module for 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
- Scraped public profiles to generate lists of honest hireable candidates
- Formed an engineering team in **Velocity Residence** to bring Gitalytics to market

### XpressCart                                           Mar 2016
- Awarded best use of the Capital One Nessie API at **PennApps XIII**
- Developed Android platform 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
- Created a C# Unity physics simulation 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 2016
University of Waterloo Collaborative Systems Laboratory

- Researched methods of engagement in user interfaces for large-scale interactive displays
- Generated anthropometric sensing algorithms in C# for Kinect

## EDUCATION

### University of Waterloo
- Candidate for B.ASc in Systems Design Engineering, 2020
- Honours: President's Scholarship of Distinction, Canadian Senior Mathematic Contest Top 10%

## ACTIVITIES AND INTERESTS

Hackathons, marathon running, flying single-engine prop planes, aerospace, indie music