ETHAN LIANG

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TECHNICAL SKILLS

Languages: Java, C++, Python, C#, SQL
Web Development: node.js, Express, React.js, AngularJS 1 & 2, jQuery, webpack, Bootstrap 3, HTML
Tools: Git, Docker, maven, gradle, AWS Lambda, AWS SQS, JUnit, JMeter

WORK EXPERIENCE

Software Developer   Jan 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 the development of the Currency Application for the Amazon Echo on AWS lambda and built a new testing framework for the Alexa Voice Service
‣ Prototyped a reimplementation of the Currency Data API in React.js with a node.js backend

Lead Frontend Developer   May 2015
Prime Leaders of York Region

‣ Developed the main website with Bootstrap and jQuery to boost brand awareness
‣ Designed and built Firebase-linked AngularJS module for responsive mailing list

PROJECTS

Gitalytics

‣ Constructed a node.js webapp to process public metrics from the GitHub API and generate statistics for employers to catch GitHub padders and code plagiarism using the CodeSearch API
‣ Employed **Big Data** techniques to construct lists of top hireable candidates

XpressCart

‣ Awarded best use of the Capital One Nessie API at **PennApps XIII**
‣ Developed Android application to enable self-checkout from smartphones through the ZXING API
‣ Validated purchased products through a weight sensor attached to an Arduino that communicates with the app using an NFC shield

EXTRACURRICULAR

Entrepreneur   May 2016
Velocity Residence

‣ Currently working with a team to bring Gitalytics to market

Undergraduate Research Assistant   May 2016
University of Waterloo Collaborative Systems Laboratory

‣ Researching methods of engagement in user interfaces for large-scale interactive displays
‣ Generating person sensing algorithms for Kinect in C#

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