ZHUCHENG (MICHAEL) TU

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COMPUTER PROFICIENCY

- Languages: Java, C, C++, Python, JavaScript, HTML, and CSS, familiar with C#
- Frameworks/Libraries: Android SDK, JUnit, SQLite, and jQuery, learning Node.js and three.js
- Environments: Windows, Linux, and Mac OS X, proficient with the Unix command line
- Tools: Eclipse, IntelliJ IDEA, Visual Studio, Emacs, Vim, Git, and SVN

EXPERIENCE

Mobile App Developer, uWaterloo Centre for Extended Learning, Kitchener, ON   5/2013 – 8/2013

- Produced requirements specifications and design sketches for prototype Android application used to streamline data entry and information retrieval for proctors
- Gained an extensive amount of experience with the Android SDK and SQLite when independently developing the student/seat search, seating map, import/export, and data synchronization features
- Tested and debugged the app using SDK and third-party tools such as the Eclipse Memory Analyzer
- Conducted regular stakeholder consultations to ensure the UX and UI are smooth and intuitive

Math Club Webmaster, Western Canada High School, Calgary, AB   6/2010 – 6/2012

- Migrated existing Flash based Math Club site to a new HTML, CSS, and JavaScript based site
- Moved frequently updated contents to a remote host to allow site to be updated when not at school

PERSONAL PROJECTS (Available at github.com/tuzhucheng)

Chat Simulator (multichat)   Multithreaded Java server and client programs that can exchange messages over sockets, simulating a chat system

Android Grade Keeping App   Collaboratively developed Android app to store marks and calculate grades

Sudoku Solver   Wrote personal Sudoku solving algorithm in Java, later ported to JavaScript for an iOS web app and C# for a native Windows 8 app

EDUCATION AND AWARDS

Bachelor of Software Engineering Candidate, University of Waterloo, Waterloo, ON   9/2012 – Present

- Faculty of Engineering and Faculty of Mathematics Term Dean's Honours List (May 2013)
- President's Scholarship of Distinction (Sept. 2012)

Alberta High School and IB Diploma, Western Canada High School, Calgary AB   9/2009 – 6/2012

- University entrance average of 95.8% and scored 42/45 points for the IB Diploma
- School's sole nominee for the National Scholarship Program of the University of Toronto

EXTRA-CURRICULAR ACTIVITIES

Software Engineering Class Representative   1/2013 – Present

- Served as Academic Representative and Math Society Representative