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DADI ZHANG SOFTWARE & WEB DEVELOPER

SKILLS

Proficient

Java, Native Android development, Python, C++, HTML, CSS, JavaScript, Bash, XML, Scheme (Racket), JSON, Markdown, REST, jQuery

Familiar

C, Node.js, Scala, Express, MongoDB, AngularJS, Lua, InfluxDB, Locust, AJAX, SQL, Bootstrap, Jekyll, MIPS Assembly

Tools

Git, Gerrit, JIRA, Agile, Atom, Linux(Ubuntu/CentOS), Vim, Eclipse, PyCharm, LaTeX, MobaXterm, Windows, Sublime, Android Studio, Eclipse, Canva

Others

Cryptography, Biology, Biochemistry, Probability Theory, Statistical Analysis

Human Languages

English (Fluent)
Mandarin Chinese (Fluent)
Japanese (JLPT N2 equivalent)
Norwegian Bokmål (Beginner)

EDUCATION

University of Waterloo
Candidate for BCS
2015 - 2020 (Ongoing)

AWARDS

Mathematics Global Scholarship
$12,000; Awarded to top international students
Fall 2015

Dean's Honours List, UWaterloo
Term Average 87%+
Fall 2015, Winter & Spring 2016

2nd Place in British Columbia
Reach for the Top Tournament; Team qualified for Nationals
April 2015

National Biology Scholar
106th/3,000+ Contestants
2014 National Biology Competition

EXPERIENCE

Gemalto NV | Ottawa, ON, Canada   September 2016 - December 2016
Software Engineer - Agile REST API Team

- Built and optimized a new automated regressive test system in Python on the API framework, which reduced total run-time from **5+ hours to 33 minutes** and discovered multiple bugs in the build
- Implemented upload, download, and crypto functionalities for the API web client using Node.js, jQuery, and AJAX; Improved usability and re-designed UI/UX components for web and desktop apps
- Conducted industry-relevant research on **cryptographic** algorithms, protocols, and operations
- Worked on **plugins** for the back-end API framework using C++ and Lua
- Developed distributed performance load testing scripts in Python (Locust)
- Other tasks included code reviews, scrum and engineering meetings, creating documentation pages, reporting and fixing bugs, and helping fellow co-ops debug and solve problems

PROJECTS & HACKATHONS

Mr. Panino   November 2016 - Present
Node.js, Express, AngularJS, MongoDB, Twinword API, NPM

- A full-stack web application where users can look up words and store vocab lists
- Utilized multiple APIs and Node packages to enhance functionality

Number Catch   October 2016 - Present
Android Studio, Java, XML, Google Text-to-Speech Engine

- An Android application that trains users to be more familiar with numbers uttered in foreign languages
- Designed with minimalist concepts and implemented multiple gameplay modes; Supports 16 languages

Myo Muse | Waterloo Hacks 2016   January 2016
Android Studio, Swift, Java, XML, Node.js

- Built the Android client of Myo Muse, a music application that changes the song playing in the Spotify playlist to match the user's running pace using Thalmic Labs' Myo armband
- Worked well with 3 other teammates; 1st Place in Waterloo Hacks and featured on the Myo dev blog

Time Series Visualization | deCODE Ottawa   October 2016
Node.js, Express, InfluxDB, AngularJS, Chart.js

- Part of the student team that worked on a data visualization and forecasting project with Klipfolio Inc.
- Implemented data analysis and prediction of future values using regression in Node.js during the hackathon

WatScholarship   January 2016
Android Studio, Java, XML

- Built an Android application that helps UWaterloo students search for scholarship information
- Learned about the Android application lifecycle, API calls, UI design, and JSON parsing

Personal Site | dzed.me   November 2015
HTML, CSS, JavaScript, Jekyll, Markdown, Bootstrap

- Built a blogging site showcasing my interests and thoughts, and providing my peers with course notes
- Responsive, minimalist front-end design; Accumulated over 10,000 page views as of January 2017

EXTRA-CURRICULAR ACTIVITIES & INTERESTS

Go (Board Game)

- 5-Dan player certified in 2009; 7-Dan on Tygem; 1st Place in the 2013 Vancouver Go Tournament
- Have been playing since age 7; Member of the Canadian Go Association and UWaterloo Go Club

Baseball and Soccer (Football)

- Co-founder and President of high school baseball club; Actively organized weekly practices and games
- Baseball: 1B/LF, contact hitter, Draft King participant; Soccer: RB/CM, fan of the Football Manager series

Language Learning, Linguistics, Piano, Tennis, Kendo, Reddit, Scandinavian Rock