Fengyang Wang

2A Mathematics (Student ID 20607242) at University of Waterloo
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Summary of Qualifications

- Full-stack web developer with frontend (HTML, JS, CSS) and backend (Node.js, SQL) experience
- Desktop programmer with Python, C, and C++ experience developed through open-source projects
- Experienced user of distributed version control (Git and Mercurial)
- Strong problem solver with algorithm skills from high school Olympiad participation
- Effective communicator developed through over two years as mathematics instructor

Experience

Programming Challenge Architect, Hack the North (Organizer Team) — August & September 2015

- Developed two security-related challenges held before the event using Node.js and C with a team of four
- Designed and deployed an on-site Project Euler-inspired programming challenge in Node.js
- Exceeded team expectations by attracting a high degree of participation in challenges on-site and off-site

Olympic Math Teacher, Grand River Chinese School — 2012–present

- Created a complete 22-lesson mathematics curriculum for advanced-level Grade 4 students
- Promoted to teacher after one year internship as a teaching assistant
- Increased class size from 9 to 21 over two years

Student Leader, High School Computer Science Club — 2014–2015

- Taught Mercurial version control system to Grade 11 and 12 students for group project
- Prepared and delivered lessons on simple algorithms and data structures, such as binary search
- Created examples and solutions to contest problems in Javascript, Python, and C++

Selected Projects

Currencies.jl — Fall 2015

- Designed a full-featured currencies format and computation library with tests and documentation
- Included in METADATA.jl, official Julia language package repository

Findr — Summer 2015

- Co-created an event finder app with a React frontend and a gulp, browserify, and babel build chain
- Co-designed the Node.js backend with a PostgreSQL database and a REST-ful API

Territory — Spring 2015

- Modernized a Python desktop strategy game, forked from an unmaintained open-source project
- Refactored code to increase modularity, enabling feature addition without net increase in lines of code

Education

Candidate for Bachelor of Mathematics at University of Waterloo (expected Apr. 2020) — 2015–present

Selected Competitions & Awards

Term Dean's List, Faculty of Mathematics — Fall 2015
Réné Descartes National Scholarship ($25000 value), awarded by University of Waterloo — 2015
Qualified for Canadian Mathematical Olympiad — 2014 and 2015
Silver Medal, Canadian Computing Olympiad — 2014