

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 projects and competitions
- Open-source contributor experienced in distributed version control (Git and Mercurial)
- Strong problem solver with algorithm skills, including participation in high school Olympiad
- Effective communicator developed through over two years as mathematics instructor

Experience

Hack the North (Organizing Team) August & September 2015

Programming Challenge Architect

- Developed two security-related challenges held before the event using Node.js and C with a team of four
- Tested participants' numerical algorithm skills by designing Project Euler-inspired challenges
- Attracted a high degree of participation in all challenges, exceeding team expectations

Grand River Chinese School 2012–present

Math Teacher

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

High School Computer Science Club 2014–2015

Student Leader

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

Education

Candidate for Bachelor of Mathematics at University of Waterloo Expected April 2020

Distinctions

Term Dean's Honours List, Faculty of Mathematics Fall 2015

R  n   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

Selected Projects

Currencies.jl Fall 2015

- Designed a full-featured currencies format and computation library with tests and documentation
- Successfully petitioned for inclusion in METADATA.jl, the 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 and added features without net increase in lines of code