Remi Marchand

4A Honours Biology,
Computer Science Minor

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About me

- Experience with full-stack web development and bioinformatics research
- Excited by new challenges; I love being thrown into the "deep end" of a project
- Jumps on the opportunity to implement new technologies (previously Docker, Elasticsearch and more) of my own accord
- Coursework in Python, C, C++, and Bash; self-taught most other skills on the job
- Familiar writing clean, modular code, and using VCS such as Git

Computer Skills

General

- Bash, Git, Docker, Unit Testing, E2E Testing, Automated Deployment

Web Development

- Javascript, AngularJS, Webpack, NodeJS, ExpressJS, Karma/Mocha/Chai, Cypress.io

Databases

- MongoDB, Elasticsearch, SQL, Neo4j

Languages

- Python, Javascript, Coffeescript, C++, C, R, (interested in Elm)

Hobbies

- Shameless music nerd; Pianist, violinist, and composer. Check out: https://soundcloud.com/remi-marchand
- Self-taught chinese home cook; Signature dish: sweet and sour fish tiles
- Fitness enthusiast in training

Work Experience

Fall 2016 — Full-Stack Web Developer — Ontario Institute for Cancer Research, Toronto

- Worked on a wide range of deliverables including unit testing and deployment to help gain further funding for the project
- Refactored and updated an old codebase (2014 MEAN stack) to include new technologies including Docker and Webpack
- Worked as part of a small team to refine our development cycle, set goals, and stay organized via github

Spring 2016 — Bioinformatics Research Assistant — National Microbiology Laboratory, Guelph

- Created tools for the curation of > 63,000 Salmonella samples to produce a collection of metadata for further analysis
- Implemented automation using custom spellchecker and controlled list modules reducing manual curation required
- Code at: https://github.com/Remimstr/Standardize_Metadata

Fall 2015 — Computational Cancer Genomics — SickKids Hospital, Toronto

- Worked as part of a team to characterize paediatric cancer samples using a high performance computing cluster
- Reduced the number of false positive translocations called by our pipeline 10-fold; from an average of 150 to an average of 16
- Designed and wrote a novel tool in python that used translocation events to predict tumor evolution

Winter 2015 — Instructional Support Assistant — Faculty of Math, University of Waterloo

- Supported students learning computer science for the first time by hosting office hours and providing 1-on-1 guidance

Volunteer Experience

Fall 2016 — Science Ambassador — Faculty of Science, University of Waterloo

- Provided insights into life as a Waterloo science student to prospective students

Winter 2015 — Course Notes Editor — Dr. Kirsten M. Muller, University of Waterloo

- Applied command of the English language to improve course notes for a first year biology class

2013-2014 — Advanced Medical First Responder — UW Campus Response Team

- Volunteered close to ninety hours to provide first aid on campus

Relevant Courses

Fall 2017 — CS 246 - Object Oriented Software Development

- Learned the fundamental principles of object oriented programming and software development in C++
- Continued to expand my skills and experience in Bash and testing

Fall 2017 — CS 338 - Relational Databases

- Became comfortable with relational algebra, SQL, entity-relationship diagrams, and their applications

Fall 2016 — CS 234 - Data Types and Structures

- Learned to choose and implement the appropriate abstract data type(s) and algorithm(s) for the job accounting for running time

Awards

Winter 2016 — Dean's Honour List

April 2014 — Grebel Student Life Award for contributions to residence

June 2013 — English and Music Awards, Grade 12

June 2010 — First Class Honours with Distinction for 90% on grade 10 piano exam