Remi Marchand

B.Sc, Honours Biology,
Computer Science Minor

✉ Waterloo, ON

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About me ——

– Software developer with a range of interests from Linux to React

– A curiosity that has driven me to use a customized Arch Linux install as my daily OS and become proficient in VIM

– I jump on the opportunity to implement new technologies (previously React + Redux, Docker, Elm, and more) of my own accord

– Coursework in Python, C, C++, Bash, and SQL; 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, Rest APIs, Unit Testing, E2E Testing, Automated Deployment, CI

Web Development

– React, Redux, Webpack, Node, AngularJS, Express, Jest/Mocha/Chai, Cypress

Databases

– MongoDB, Elasticsearch, SQL, (interest in Neo4j)

Languages

– ECMAScript 2015, Python, Elm, Coffeescript, C++, C

Hobbies ———

– Shameless music nerd; pianist, violinist, listener of many soundtracks

– Exploratory home cook; Signature dish: sweet and sour fish tiles

– Fitness enthusiast in training

Work Experience

Present–July 2018	**Software Engineer**	Acerta, Kitchener

- Led an effort to design and develop the company's client-facing web application in React + Redux
- Took ownership over all aspects of the product including its architecture, configuration, development workflow, and testing
- Collaborated with members from Acerta's business team and clients to design an intuitive and functional user interface
- Worked as part of the company's engineering team to enforce git practices, perform code reviews, and participate in sprint meetings

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

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

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
- http://science.sciencemag.org/content/361/6405/eaam8419

Volunteer Experience

Present–Oct. 2018	**Front-End Web Developer**	Faculty of Math, University of Waterloo

- Built a website to provide a solar array sizing selection tool to the public: https://github.com/Remimstr/SizingWeb
- Took advantage of the opportunity to learn Elm along with functional programming paradigms

2016-2018	**Science Ambassador**	Faculty of Science, University of Waterloo

- Provided insights into life as a Waterloo science student

2013-2014	**Advanced Medical First Responder**	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++

Fall 2017	**CS 338 - Relational Databases**

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

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