

RICARDO RAMNARINE

C: (416) 602-6304

Ricardo.Ramnarine@mail.utoronto.ca ♦ linkedin.com/in/RicardoRamnarine/ ♦ www.ricardoram.com

EDUCATION

University of Toronto – Honours B.Sc. in **Computer Science & Bioinformatics**

2014 - 2019

Languages: Java, Python, C, JavaScript, SQL

Courses: Software Design, Systems Programming, Algorithm Design, Data Structures, Operating Systems, Web Programming, and Software Engineering

WORK EXPERIENCE

Finastra - Software Developer Intern

May 2018 - August 2019

OpenAPI Linter (Technologies: **Kotlin, JavaScript, PostgreSQL, Docker**)

- ♦ Worked on a quality assurance OpenAPI linter enforcing Finastra REST API standards for OpenAPI specifications in an interactive Web UI.
- ♦ Followed a **test-driven development framework** to implement Finastra specific rules using **Kotlin**

BDD Demo Application (Technologies: **Java, SQL Server, Spring, Gherkin, OAuth 2.0**)

- ♦ Developed an innersource application from the ground up with a functional microservice REST API using **Spring Framework** to demonstrate automated **BDD** testing using **Cucumber**
- ♦ Presented and made available to Finastra teams to fast track their learning of BDD testing

Public Health Ontario - Research Assistant

September 2017 - April 2018

- ♦ Used tools run on a cluster to assemble and characterize genomic reads from bacteria isolates
- ♦ Performed Molecular Serotyping, MLST, and SNP Analysis on WGS data of foodborne pathogens
- ♦ Used Gini-Simpson and other heuristics to measure how each analysis distributed the data
- ♦ Published in: **Draft Genome Sequences of Four Clinical Legionella pneumophila Isolates from Ontario, Canada**. *Genome Announcements*. 2018; 10.1128

PROJECTS

File Synchronization System (Language: **C**, Project Type: **Independent**)

2017

- ♦ Created a file copying tool that synchronizes a file or directory from a source to a destination.
- ♦ The **client** and **server** program collaborate using **sockets** to send files across different machines.
- ♦ For efficiency, this program compares hashes of the source and destination files before copying to check if it is necessary.

Quality Assurance for Computational Systems Biology (Language: **R**, Project Type: **Team**)

2017

- ♦ Responsible for keeping a **team of 20** students on track in a collaborative software environment and verifying the quality of submitted code through **code reviews**.
- ♦ Followed a **test-driven development framework** to develop an **R package** with tools that can be used to analyze driver mutations from cancer sequencing projects.

Mock File System (Language: **Java**, Project Type: **Team**)

2015

- ♦ Mock file system that uses **OOP, generics** and **design patterns** to implement basic shell commands.
- ♦ Followed **SCRUM software development** framework and received the highest overall team effectiveness score from my team members.

VOLUNTEER/LEADERSHIP

♦ Coach of the *University of Toronto's* University College Dragon Boat Club

2017 - 2018