

Brendan DSouza

4B Computer Engineering

2462 Stefi Trail • Oakville, Ontario, L6H5Y4

Phone: 905-466-1285 • E-Mail: b4dsouza@edu.uwaterloo.ca

Website: brendandsouza.github.io

List of Qualifications

- Advanced experience with computer programming in Java, and Python Pandas Data Analysis library.
- Experience as a full stack developer, using Java and Spring in a microservices architecture.
- Advanced knowledge in building and querying databases in MySQL.
- Frontend development experience with HTML, CSS and JavaScript ES6 with AngularJS.
- Knowledge and hands-on experience operating on Unix-based Operating Systems.

Experience

Software Developer (Data Engineering), Thomson Reuters, Toronto, Ontario September 2019 – December 2019

- Developed a proof of concept that imported data from an HTTP endpoint to a third-party application (Alteryx) using Python and JavaScript.
- Participated in making changes to a Java security library that implements authorization to the product's API endpoints through annotations.
- Worked on critical bug fixes and features in a short timeframe before initial production release.

Software Developer, Ultimate Software, Toronto, Ontario September 2018 – December 2018

- Added functionality to the full stack of the web application using Java and JavaScript with AngularJS.
- Resolved frontend and backend bug and feature tickets posted on JIRA.
- Investigated methods to increase queue performance in RabbitMQ as a side project.

Software Test Engineer, Ultimate Software, Toronto, Ontario January 2018 – April 2018

- Created and documented automated tests using Junit5 framework.
- Built a strong foundation in the User Interface testing framework using Selenium and Junit5.
- Updated and documented software-related issues on JIRA.

Education

Candidate for Bachelor of Applied Science (expected: 04/2020),

4B Honours Computer Engineering

University of Waterloo, Waterloo, Ontario

September 2015 - Present

Relevant courses: Algorithm Design and Analysis, Programming for Performance, Engineering Design Project, Distributed Computing, Database Systems, Operating Systems.

Ontario Secondary School Diploma

Holy Trinity Secondary School, Oakville, Ontario, 2015

June 2015

Projects

Clairvoyant Mesh Network

May 2019 - Present

Developed and designed the backend infrastructure in Java and MySQL to support a mesh network of nodes which detect various disturbances in the environment. Also developed a website in JavaScript to monitor activity of the network.

Command Line Interface Social Network

April 2019

Worked in a group to build a Java CLI client that used a MySQL database to support the basic functionalities of a social network such as creating and commenting on posts and following friends.

Simulating queue behavior in a CSMA/CD network

March 2019

Built a Java application to simulate and measure key metrics in a Carrier Sensing Multiple Access with Collision Detection (CSMA/CD) computer network.