

WORK EXPERIENCE

Software Developer

Environment and Climate Change Canada

📅 May 2019 – September 2020

📍 Toronto, Ontario

- Developed code and properly structured files and workflow with the **Angular framework** and launching projects with **Node.js** as well as properly integrate different libraries and use APIs
- Daily meetings (**Scrum**), monthly releases and in-depth code review and version control using GitLab
- Worked on back-end components, mainly an in-house search system and then introduced many new features for accessibility, updating it to Angular from basic **Javascript/jQuery** and **HTML**
- Executed **SQL** queries and helped design data payloads for use in the front-end applications, and parsed **JSON** data for each component
- Built 2 major components of a brand-new web app front-end, one using ag-grid and Highcharts for data analysis and other using OpenLayers (GIS) to track objects and place them on a map

EDUCATION

Honours B.Sc - Double Major in Computer Science and Chemistry, Minor in Mathematics

📅 2016 – May 2021

📍 University of Toronto

PROJECTS

See full list of projects and source code at <https://github.com/robbymister>.

Runelite (Open-Source) - Java

- Java-based custom client for Old School Runescape, have worked on certain plugins as well as small quality of life updates such as inventory labels and certain gameplay interactions.

Streamie - Javascript, HTML, CSS, PHP:

- A project that allows multiple users to connect to a specific room URL and watch synchronized YouTube videos together as well as chat together. This uses a SQL database, a PHP back-end for the login, Python back-end for server-side synchronization, basic HTML/CSS for the layout as well as JavaScript and several APIs are used, such as Scaledrone chat room API.

Panda Robot Applications - C++:

- Created an application that receives a robot configuration and returns the corresponding Space Jacobian and Body Jacobian of a Panda robot. Created another application that finds possible configurations using Search Algorithms and Inverse Kinematics.

CORE SKILLS

Programming Languages

Python, Shell, Java, C, JavaScript, C++, SQL, PHP, TypeScript, C#, Dart

Environment/Tools/Operating Systems

Bash, Git, GDB, Jenkins, Kibana, Node.js, Linux, Windows

Databases

PostgreSQL, Oracle, MongoDB, neo4j (Graph-based)

Other Computer Science Experience

Robotics, A.I., Machine Learning, Neural Networks

Frameworks

Angular, React, Flutter

Object-Oriented Design Principles

Data Structures & Algorithms, Agile Methodologies, Scrum, UML, Design Patterns

Languages

English (fluent), French (fluent)