

Callum Haugen

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Experience

Programmer Analyst | May 2021 - September 2021

Public Service Canada

- Updated and maintained important **SQL databases** when new data was obtained and created reports for clients in order to visualize and synthesize data
- Leveraged multiple enterprise applications to create user facing and internal data sheets to understand client's needs

Junior Computer Scientist | September 2020 - December 2020

Communications Research Canada

- **Built GUI interface** for an underlying command line style MatLab application enabling a more user-friendly interface allowing normal users to use the application
- **Automated testing** of GUI using **python scripts** in order to quickly and thoroughly test functionality of the program

Incident Coordinator | May 2020 - August 2020

Shared Services Canada

- **Enabled communication** between IT and stakeholders of vital infrastructure that resulted in the repairs being completed rapidly and thoroughly
- Ensured that IT department **began repairs within 30 minutes** for vital IT Infrastructure and documented steps taken

Teaching Assistant | August 2019

Carleton University

- Presented important math concepts to incoming first year students using sample problems and class tutorials resulting in a **45% increase in mock test scores**
- Managed an in person class of **25 students** both as a group and **1-on-1** to keep them on task and helping them with math concepts

Projects

Homebridge | Raspberry Pi project

- Implemented **Homebridge Github** project on a raspberry pi to enable compatibility between Apple homekit and non homekit supported devices
- Used smart home company's **web APIs** to configure homebridge to communicate with three different smart home platforms

Education

Carleton University, Ottawa, ON

4th year Undergraduate,
Bachelor of Computer Science Honours,
concentration in Software Engineering

Minor in Political Science

Deans' Honour List Student 10.86 GPA

Expected Graduation April 2023

Extracurriculars

Science Student Success Centre

Aided first year students to reach their academic goals and help them acclimate to university life

CUHacking

Developed a small application using an **SQL database and a web frontend** in a group with a limited amount of time

Carleton Intramural Basketball

Honed team skills with new people in a competitive environment

Languages

C++, C, Java, Python, JavaScript, HTML, CSS, SQL, NoSQL, Scheme, MatLab

Concepts and Skills

Web concepts, REST APIs, memory management, data structures, design patterns, database design and maintenance, GIT collaboration, client-server relationship, OOP, functional programming, cloud computing (Google Cloud), Linux/Unix shells and package management