

Ali Al Yasseen

COMPUTER SCIENTIST

☎ (+1) 587-500-4117 | ✉ ali.alyasseeen@ucalgary.ca | 📱 alia720 | 🌐 ali-al-yasseen-b76a15250

Education

University Of Calgary

B.S. IN COMPUTER SCIENCE (EXPC. 2026)

Calgary, Alberta

Sept. 2022 - May. 2026

- **Science Co-op Internship Program**
- **Notable Coursework:** Analysis of Data Structures and Algorithms, Software Architecture, Software Testing, Operating Systems

Skills

- **Languages:** C, Assembly, Python, Typescript, Java, JavaScript | HTML | CSS
- **Frameworks and Tools:** Docker, REST API Development, GitHub, Node.js, React, TailwindCSS, Make, Svelte, PyQt6, TCP Socket Programming
- **Databases:** PostgreSQL, FastDB
- **Knowledge:** Linux, OOP, REST API Development, IoT Ecosystem Integration, Real-Time System Monitoring, HTTP CRUD Operations

Projects

EggLoL

[HTTPS://GITHUB.COM/ALIA720/EGGLOL](https://github.com/Alia720/EggLoL)

Overview: A Discord bot that delivers comprehensive **League of Legends** champion information and manages **user profiles**.

- Led collaborative development with a partner, implementing effective task distribution and successfully resolving **merge conflicts** through **GitHub**.
- Configured and maintained a **PostgreSQL database** on a local **Raspberry Pi 4**, implementing secure **TCP/IP connections** for seamless remote access.
- Integrated **BeautifulSoup4** for efficient web scraping and leveraged **discord.py** to provide real-time game data directly within Discord.

RMP-Extension

[HTTPS://GITHUB.COM/ALIA720/RMP-EXTENSION](https://github.com/Alia720/RMP-Extension)

Overview: A Chrome extension that seamlessly integrates **professor data** from the University of Calgary website with ratings from **RateMyProfessors**.

- Engineered robust **asynchronous communication** protocols between content/background scripts to efficiently gather professor information.
- Implemented automated web scraping using **Puppeteer** to extract comprehensive **professor ratings**, difficulty metrics, and **student feedback**.
- Developed an intuitive **data presentation system** within the Chrome extension's popup interface for optimal user experience.

Spout

[HTTPS://GITHUB.COM/MAITRA10/SPOUT](https://github.com/MaiTra10/Spout)

Overview: Developed an integrated ecosystem for remote sprinkler management that optimizes water usage by enabling remote activation, detailed water tracking, and weather-based watering tips for a hackathon

- Engineered a robust backend API in **Python** using TCP sockets to facilitate real-time control and monitoring of sprinkler operations.
- Built a responsive web application with **Svelte** and a desktop application using **PyQt6** to provide users with a unified interface for managing their sprinklers.

CustomerReach (WIP)

[HTTPS://GITHUB.COM/ABDIRAZAK140/CUSTOMERREACH](https://github.com/Abdirazak140/CustomerReach)

Overview: An innovative **web application** that streamlines the discovery of **potential customers** through business description analysis and targeted criteria matching.

- Engineered a robust backend using **FastDB**, seamlessly integrated with a **React + Vite** frontend for enhanced user interaction.
- Implemented **RabbitMQ** for efficient message queuing and leveraged **NLPs (Natural Language Processing)** to extract valuable insights from customer data.
- Adopted **TailwindCSS** and **TypeScript** to ensure code maintainability and scalability throughout the development lifecycle.

Work Experience

Schulich Ignite (Google IgniteCS)

UNIVERSITY OF CALGARY

Calgary, Alberta

Feb. 2025 - May. 2025

Overview: Taught Python programming fundamentals to a group of 6+ middle to high school students using Processing.py, enhancing engagement through interactive exercises and live coding demonstrations

- Reviewed and graded student exercise submissions while providing real-time coding demonstrations to reinforce key concepts
- Contributed to post-session debrief meetings with other mentors, offering feedback and collaborating on lesson plan development