

Amrit Mahendrarajah

[linkedin.com/in/amritmahendrarajah](https://www.linkedin.com/in/amritmahendrarajah) | 403-700-1534 | amritm3000@gmail.com | github.com/skilledd007

Skills

Languages: JavaScript, Java, Python, C, C++, C#, TypeScript, Swift, SQL, HTML, CSS and MATLAB, Verilog, VHDL, Assembly

Frameworks/Libraries: React, Node, .Net, Sanity, ICS, Numpy, Pandas, Matplotlib, OpenCV, Arduino, Scapy, SciKit-Learn, Core Location

Tools: Git/Version Control, Jenkins, Linode, Linux, Docker, CocoPods, Maven, Homebrew, Firebase, Google Cloud

Education

UNIVERSITY OF CALGARY

JUN 2023

- BS in Electrical Engineering, Minor in Computer Engineering

Relevant Courses: Data Structures and Algorithms, OOP, Operating Systems, Computer Architecture, Probability and Statistics

Experience

SCIENTIA SOFTWARE

Front-End Developer

Calgary, AB

AUG 2022 – Present

- Working on a full-stack web application utilizing **React**, **Flask** and **SQL** with enhanced security measures for users using hashing.
- Increased data scraping speeds by 82% by utilizing **multi-threading** and enhancing SQL queries.

BATTERY ADVANCEMENT LTD

Software Developer

Calgary, AB

SEP 2021 – SEP 2022

- Increased sales by 75% by deploying an internal business intelligence web application using **React**, **Django**, and **Plotly**.
- Reduced warranty fraud by 70% by utilizing **React**, **TypeScript**, **C** and **C++** to develop a web-enabled Battery Monitor.
- Reduced debugging and deployment time by 95% by developing a suite of Diagnostic and Programming tools using **C#**.

AURORA WIRELESS NETWORKS

Software Developer Intern

Calgary, AB

MAY 2021 – MAY 2022

- Enhanced test setup time by 80% by rebuilding an **Automated Testing Suite** in **C#**.
- Eliminated a failure rate of a testing suite by designing a background worker for **network monitoring** in Python to identify lags and latency.
- Improved uptake of user-defined **network configurations** by 40% by creating a user-friendly **C#** application.

MODERN NIAGARA

Project Coordinator Intern

Calgary, AB

MAY 2019 – AUG 2019

- Assisted in the **project management** of a 2.3-million-dollar Cooling Upgrade for the city of Calgary.
- Created Operation and **Maintenance manuals** for over 5 million dollars worth of projects.
- Marked up existing drawings to reflect As-Built conditions for a half-million-dollar data center cooling project.

LEADERSHIP EXPERIENCE

RELECTRIC

Technical Lead

Calgary, AB

SEP 2019 – OCT 2022

- Set up processes, guidelines, and documents for the conversion of the 1966 Volvo P220 and made the news in doing so.
- Led and mentored a team of 10 engineers in university career development, problem-solving and engineering practice.
- Advised on the development of a custom Linux kernel that runs an integrated custom infotainment system.

HOUSE OF COMMONS

Youth Advisory Member

Calgary, AB

OCT 2021 – OCT 2022

- Advised the His Majesty's Shadow Minister for Immigration, Refugees and Citizenship on youth issues and policy at the Federal level.
- Analyzed immigration policy regarding technology and engineering and their effect on GDP growth and innovation in Canada.
- Attended periodic bi-weekly meetings with up to 30 different members and utilized problem solving, leadership and communication skills

RELEVANT PROJECTS

noSpeed

PRESENT

Mobile Application written in **Swift**, which monitors driver habits and records any speeding events into a **Firebase Firestore** database. It allows the user to view recent speeding events and will eventually monitor behaviour to identify habitual speeding.

LifeLine

PRESENT

Web Application written in **Typescript** that uses **React** for the front-end and **Next.js** for the backend. It allows students to upload PDF course outlines and uses them to determine course deadlines, exam dates etc. The student can then modify or add to the extracted dates and export them to an .ics file which is compatible with any standard calendar.

Client Website

OCT 2022

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Building a personal website for a **Cambridge Scholar** to show off new research publications as well as promote events they are speaking at. Using React for the front-end, **Sanity.io** for the CMS and deploying on **Netlify**.