

ARYAN KARADIA

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Education

University of Calgary, Schulich School of Engineering

Sept 2021 - Apr 2025

Bachelor of Software Engineering

- **Courses:** OOP in C++, C, Python, Compilers, Algorithms, Data Structures, Data Management, Computer Organization, Full Stack Web Development, Object Oriented Principles, Machine Learning
- **GPA:** 3.65, Dean's List for 2 semesters

Skills

Languages: C, C++, Java, Python, HTML, CSS, JavaScript
Technologies: Git, MySQL, tailwind, scikit-learn, AWS, React

Personal Projects

AARAA – A Machine Learning Model for Tomorrow

Nov 2022

- This program allocates resources to problems that specific non-profit organizations can solve using statistical analysis and machine learning
- Using a python machine learning framework, scikit-learn to create a linear regression model, we identify relationships between independent and dependent variables based on the statistical significance of the relationship to then suggest global non-profit organizations that can solve the problem
- Alongside the machine learning model, we created a web app using html5 and CSS to display our solutions and our mock consulting company

Museum SQL Implementation Project

Dec 2022

- Designed and implemented a SQL database for a mock museum to manage their art objects and events
- Alongside the database, I created a python application that can manage art objects, users, and provide access control. This was done with the help of another group member
- Created an admin user, employee user, and a guest user to distinguish the levels of access control along with specific permissions for each role within the database

River Flow Data Linked List Application

Nov 2022

- Designed and wrote a C++ program that allows a user to study the variation of annual water flow in a river given starting data
- This program reads and stores data from a text file and dynamically allocates memory using a FlowList class which manages the dynamically created linked list of data
- Implemented several global functions including main function, introduction screen display, data read and display, menu display and user choice return, data add and remove, flow average calculation, data save, and user input wait

Professional Experience

EMBE Consulting Engineers Inc.

Aug 2021 – Sept 2021

Engineering Intern

Calgary, AB

- Drafted and cleaned detailed drawings in AutoCAD for electrical and mechanical engineering use
- Liaised with clients and colleagues to ensure project requirements were met
- Prioritized multiple tasks and worked effectively in a team to meet deadlines