

# Aryaman Raina

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## EDUCATION

### Bachelor of Science, Computing Science Specialization

Expected Graduation – June 2025

University of Alberta

- **Certificates:** Certificate in Innovation and Entrepreneurship (CIE).
- **Relevant Coursework:** Practical Programming Methodology (CMPUT 201), Algorithms (CMPUT 204), Basics of Machine Learning (CMPUT 267), Formal Systems and Logic in Computing Science (CMPUT 272), Introduction to File & Database Management (CMPUT 291), Introduction to Software Engineering (CMPUT 301), Computational Cryptography (CMPUT 331), Introduction to Numerical Methods (CMPUT 340), Games, Puzzles, Algorithms (CMPUT 355), Introduction to Reinforcement Learning (CMPUT 365), Search and Planning in Artificial Intelligence (CMPUT 366), Web Applications & Architecture (CMPUT 404).

## WORK EXPERIENCE

### Co-op Systems Engineer

May 2023 – August 2023

Collins Aerospace, Montreal, QC

- Contributed to the integration of software applications, ensuring performance and stability were aligned with high standards using **Python**, **VRig**, and **Matlab**, which enhanced system operations.
- Conducted in-depth analysis and gained expertise in the Radar Altimeter (RALT) system, contributing to a comprehensive understanding of its complex functionality and impact within the aerospace industry.
- Designed the Media Loader.py tool to improve efficiency in managing VRig setups by automating tasks and streamlining database updates, significantly accelerating the build process.
- Utilized **Microsoft Teams** and **Excel** to optimize team coordination and monitor project progress.

### Sales Ambassador

January 2021 – April 2021

SDI Marketing, Edmonton AB

- Expertly promoted the NEO Financial Credit Card by aligning its features with customer needs for optimal relevance and appeal.
- Provided tailored product demonstrations, addressing individual customer requirements to enhance product understanding.
- Continuously updated my knowledge of current promotions, ensuring accurate and timely responses to customer inquiries.
- Successfully increased card sign-ups by 25% within a four-month period, reflecting effective sales strategies and high customer satisfaction.

## PROJECT EXPERIENCE

### Distributed Social Web Platform

Oct 2023 – Present

- Designed engaging user interface for peer-to-peer social networking app, boosting user engagement with interactive features like liking and commenting.
- Accomplished comprehensive tasks such as -- enabling post creation, editing, and customization, image hosting, and privacy settings, while ensuring secure content sharing and user-friendly profile and post management via web browsers.
- **Technical Skills Utilized:** GitHub, JavaScript, Python, SQL, HTML, CSS, Bootstrap, Vue, Heroku.

### QR Code Scavenger Hunt App

Feb 2023 – Apr 2023

- Designed and developed an engaging Android QR code scavenger hunt game in a team of five where players locate hidden QR codes to earn points.
- The application utilizes interactive geolocation and camera features for an enhanced gaming experience.
- **Technical Skills Utilized:** Github, Java, FireBase, Figma, Android Studio, Google Workspace

### Spotify Powered Music Recommender

Sept 2022– Nov 2022

- Developed 'Music-Wiz', a content-based music recommendation engine utilizing the Spotify API via the Spotipy library.
- The system harnesses song metadata and audio feature analysis, employing the cosine distance metric to curate personalized playlists for users.
- **Technical Skills Utilized:** Spotipy, Pandas, NumPy, scikit-learn (Sklearn), Spotify API

### IMDB Movie Rental System

Mar 2022– Apr 2022

- Collaborated in a trio to develop a movie rental system that stores IMDB data and provides intricate search functionalities and smart recommendations based on user inputs.
- The system supports detailed queries for movie titles, cast information, and genre-based filtering, offering a robust and user-friendly interface for movie enthusiasts.
- **Technical Skills Utilized:** Python, MongoDB

## VOLUNTEER EXPERIENCE

### Events Director, Entrepreneurship Club - University of Alberta

Oct 2023 – Present

- Facilitate on-site event operations for entrepreneurship-focused events, including workshops, speaker series, and networking mixers.