

# AAYAN AHMED

📞 (403) 708-0861 📩 aayanahmed040@gmail.com 💬 linkedin.com/in/aayan-ahmed-a10bab349/ 🌐 github.com/AayanAhmed040

## Education

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### Mount Royal University

Bachelor of Science — Major in Data Science

Expected Graduation: May 2029

Calgary, AB

- **Relevant Coursework:** Data Science I, Problem Solving & Programming (Python), Mathematical Statistics, Linear Algebra, Calculus I

## Summary of Qualifications

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- Data Science undergraduate proficient in **Python**, **SQL**, and **Applied ML** logic (OpenCV, MediaPipe).
- Proven ability to engineer scalable solutions, including a **custom Python bot ecosystem** sold to multiple clients.
- Strong technical communicator with experience mentoring students in Python debugging and logic at Steamoji.

## Technical Skills

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**Languages:** Python, Java, SQL, JavaScript

**Libraries/Frameworks:** Pandas, NumPy, OpenCV, MediaPipe

**Tools:** Git, GitHub, VS Code, REST APIs, JSON, Data Pipelines, Linux/Bash

## Projects

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### AI/ML Face-Tracking GIF Application | [github.com/AayanAhmed040/Face-Tracking-App](https://github.com/AayanAhmed040/Face-Tracking-App)

Nov 2025

- Developed a real-time computer vision application using **Python**, **OpenCV**, and **MediaPipe**.
- Engineered facial landmark detection logic to track user head pose and expressions to trigger dynamic GIF overlays.
- Optimized frame processing loop to ensure low-latency performance during real-time video capture.

### Telegram-to-Discord Data Pipeline | [github.com/AayanAhmed040/Telegram-Discord-Forwarder](https://github.com/AayanAhmed040/Telegram-Discord-Forwarder)

Feb 2025

- Engineered a cross-platform event pipeline in **Python** to scrape and forward messages from Telegram to Discord.
- Implemented asynchronous handling with **Telethon** to manage high-volume data streams without blocking.
- Designed a JSON-based configuration system to manage webhooks and channel mapping for scalability.

### Live Data Dashboard | [github.com/AayanAhmed040/Dakboard-Type-Thing](https://github.com/AayanAhmed040/Dakboard-Type-Thing)

Apr 2025

- Developed a personal visualization dashboard integrating live data from **CoinGecko** and **OpenWeather APIs**.
- Leveraged AI-assisted (LLM) coding workflows to accelerate frontend development (HTML/JS).

## Work Experience

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### Facilitator

*Steamoji*

Jan 2024 – May 2025

Calgary, AB

- Instructed students (ages 5-14) in core programming concepts, including **Python** and Scratch.
- Explained complex programming logic and problem-solving strategies to students one-on-one, reinforcing video-based curriculum.
- Debugged and troubleshooted student-written **Python** code, identifying errors in logic, syntax, and flow.
- Mentored students across multiple STEM disciplines, including 3D modelling and engineering principles, adapting explanations.
- Collaborated daily with a facilitator team to manage classroom logistics and communicate student progress clearly to parents and managers.

### Freelance Python Developer

*Self-Employed*

Feb 2022 – Jun 2023

Calgary, AB

- Developed, deployed, and sold custom **Discord bots** to multiple clients.
- Automated key community management tasks, replacing manual client work and moderation.
- Engineered user activity tracking systems and economy modules (JSON storage) to drive community engagement.
- Managed the full software life-cycle, from requirements gathering to deployment and long-term maintenance.