Aayan Ahmed

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Education

Mount Royal University   **Expected Graduation: May 2029**
Bachelor of Science — Major in Data Science   *Calgary, AB*
- **Relevant Coursework**: Data Science I: Introduction to Databases, Introduction to Problem Solving & Programming (Python), Concepts of Mathematical Statistics, Linear Algebra, Calculus I

Summary of Qualifications

- Proven ability to deliver real-world solutions, including developing, deploying, and **selling a custom Python bot** to multiple clients.

- Proficient in **Python** and **Java** with hands-on experience building data pipelines and data-focused applications.

- Experienced in technical mentorship and communication from instructing and **debugging Python code** for students at Steamoji.

Technical Skills

Languages: Python, Java, SQL

Libraries/Frameworks: Pandas, NumPy, OpenCV, MediaPipe

Tools & Other: Git, GitHub, VS Code, APIs, Data Pipelines

Projects

Face-Tracking GIF Application | github.com/AayanAhmed040/Face-Tracking-App   **Oct 2025 – Present**
- Developing a real-time computer vision application using **Python**, **OpenCV**, and **MediaPipe**.
- Implementing facial landmark detection to track user expressions and head pose to trigger corresponding GIF overlays.

Telegram-to-Discord Forwarder | github.com/AayanAhmed040/Telegram-Discord-Forwarder   **Feb 2025**
- Engineered a cross-platform data pipeline in **Python** to automatically scrape messages from Telegram channels to Discord.
- Utilized **Telethon** and **discord.py** libraries to manage asynchronous event handling.
- Managed user data, channel lists, and destination webhooks using **JSON** configuration files.

Crypto Trading Simulator | github.com/AayanAhmed040/Crypto-Trading-Sim   **May 2024**
- Developed a console-based crypto trading simulator in **Java** allowing users to create accounts and manage a portfolio.
- Integrated the **CoinGecko API** to fetch and display real-time cryptocurrency prices in CAD.
- Implemented data persistence for all user accounts, passwords, and portfolio balances using **CSV** flat-files.

Work Experience

Freelance Discord Bot Developer   **Feb 2022 – June 2023**
Self-Employed   *Calgary, AB*
- Developed, deployed, and sold a custom **Python** Discord bot to multiple clients.
- Engineered a key feature to track user message activity, providing clients with community engagement metrics.
- Created an economy system (daily currency, gambling) using **JSON** to drive user retention and activity for clients.
- Managed the full project life-cycle, from client consultation and feature design to deployment and support.

Steamoji   **Jan 2024 – May 2025**
Facilitator   *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 troubleshot student-written **Python** code, identifying errors in logic, syntax, and flow.
- Mentored students across multiple STEM disciplines, including 3D modeling and engineering principles, adapting explanations.
- Collaborated daily with a facilitator team to manage classroom logistics and communicate student progress clearly to parents and managers.