Usaid Ahmed

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Professional Summary

Ambitious computing science student with a proven track record in AI research, software development, and leadership. Skilled in Python, machine learning, data-handling, and web technologies, with experience managing large projects and delivering innovative solutions. Adept at fostering teamwork and driving results in dynamic, high-pressure environments.

EDUCATION

University of Alberta

Sep. 2023 – Present

Honours Bachelor of Science in Computing Science - GPA: 4.0/4.0

- Dean's Honor Roll (2023, 2024, 2025): Awarded for maintaining a Cumulative GPA of 3.50 or higher annually.
- Dean's Research Award: Recognized for exceptional research contributions.
- University of Alberta Scholarships: Awarded multiple merit-based scholarships for academic excellence.
- Key courses: Data Science, AI, Machine Learning, Database Management, Software Engineering, Algorithms.

TECHNICAL SKILLS

Languages: Python, C/C++, HTML/CSS, Java, JavaScript/TypeScript, SQL

Frameworks/Databases: React, Next.js, Node.js, Tailwind CSS, Supabase, MongoDB, PostgreSQL, SQLite

Cloud/DevOps: AWS (Lambda, S3, OpenSearch, Bedrock, CloudWatch), Docker, Vercel

Developer Tools: Git, VS Code, Cursor, Android Studio, Kaggle, OpenAI, Hugging Face, Flutter, RESTful APIs Libraries: pandas, NumPy, Matplotlib, scikit-learn, TensorFlow, PyTorch, Streamlit, Flask, Pygame, NLP-libraries

EXPERIENCE

Teaching Assistant – Statistics (Scheduled)

Sep. 2025 - Dec. 2025

University of Alberta

Edmonton, AB

- Appointed as a TA for an undergraduate Statistics course, bridging computing science principles with statistical reasoning.
- Will support grading, student mentorship, and lead weekly seminars to reinforce data-driven problem solving.

Summer Artificial Intelligence Intern

May 2025 – Aug. 2025

MPAC (Municipal Property Assessment Corporation)

Toronto, ON

- Developed a production-ready RAG-based Chatbot to process 12,000+ sensitive internal documents.
- Engineered the full pipeline using AWS Bedrock, Lambda, OpenSearch, S3, and CloudWatch.
- Built robust data pipelines for extraction, cleaning, keyword tagging, chunking, and embedding of unstructured documents.
- $\bullet \ \ \text{Implemented advanced optimization techniques, increasing chatbot accuracy to over } \textbf{85\%} \ \text{on firm-sensitive queries.}$
- Presented the project to the CTO and secured approval for production deployment across 2000+ employees.

Technology Director

Aug. 2025 – Present

Undergraduate Artificial Intelligence Society (UAIS)

Edmonton, AB

- Maintain and enhance the UAIS website and digital infrastructure to support events and member engagement.
- Advise members on AI project development and lead technical workshops.
- Represent the society at industry conferences and facilitate collaborations with external AI professionals.

Artificial Intelligence Research Assistant

Sep. 2024 – May 2025

Faculty of Engineering at University of Alberta

Edmonton, AB

- Conducted research on Generative AI models to enhance Natural Language Processing pipelines.
- Designed an interactive Streamlit UI to demonstrate the trained model's functionality.

Events & Information Technology Executive

Aug. 2024 – Present

Pakistani Students Association

Edmonton, AB

- Led a team of 10 members to plan and execute multiple large-scale cultural events.
- Developed a full-stack interactive web application for the association with user-friendly features.

Chief Operations Officer

Sep. 2022 – May 2023

Nixor Engineering Solutions (A student-led corporate entity)

Karachi, PK

- Supervised R&D projects, including an RFID access system and a smart irrigation prototype.
- Conducted an **introductory Python workshop**, training over 100 students in Python basics and algorithms.

VibeSync: Mood-Driven Social Media App | Java, Android Studio, Firebase, Google Maps API

- Built a native Android app enabling users to post mood-based updates with text, images, and locations.
- Integrated Firebase Auth, Firestore, and Storage for authentication, data storage, and media handling.
- Implemented features like VibeQuests, emoji bundles (VibeShift), and interactive mood maps using Google Maps API.

UAlberta CourseLens | Next.js, AWS Lambda, PostgreSQL, Python, Tailwind CSS

- Built a centralized platform aggregating UAlberta course data and professor reviews from Reddit, BearTracks, and RateMvProf.
- Engineered backend using AWS Lambda and algorithms for course difficulty and accessibility insights.
- Implemented secure authentication and deployed a fast, student-focused UI for personalized recommendations.

3D Ray Tracer | C, Makefile, PPM, Ray Tracing Algorithms

- Built a multi-file 3D ray tracer in C language with semi-realistic lighting and anti-aliasing.
- Engineered a high-performance rendering pipeline, achieving real-time, photorealistic frame generation.

Interactive Twitter CLI | Python, MongoDB

- Developed an interactive, user-friendly command-line application replicating core Twitter functionalities.
- Handled 10K+ simulated users during testing, demonstrating robust database integration with MongoDB.

Machine Learning Projects | Scikit-learn, TensorFlow, PyTorch, Flask, Streamlit, NumPy, Matplotlib, OpenAI API

- Built Cat-Dog Classifier, Movies Recommender, Disease Predictors, and Chef-GPT using diverse ML techniques.
- Integrated OpenAI API, trained NNs on Kaggle datasets, and built dynamic UIs with Streamlit and Flask.

aMuse: Neuro-Marketing Application | Python, Flutter, Scikit-Learn, Figma, Google Colab

- Integrated Muse EEG headsets into an application to deliver consumer insights for consultancy agencies.
- Trained a model using the cosine similarity algorithm on a 100+ dataset to measure subject engagement.