

AYUB HUSSEIN ALI

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EDUCATION

University of Alberta

B.S. in Computing Science Specialization

Expected Dec 2026

Edmonton, AB

Relevant Coursework: Data Structures & Algorithms, Software Engineering, Databases & File Management Systems, Search Planning & Artificial Intelligence, Discrete Mathematics, Linear Algebra, Calculus I & II

EXPERIENCE

Back End Developer Intern

Sep 2024 – Dec 2024

Ment (Remote)

Hamilton, ON

- Built a real-time transcription and note-taking tool using **React(JavaScript)**, **Tailwind CSS**, **AWS Transcribe**, and **OpenAI API**, reducing manual note-taking by **80%** and streamlining meeting documentation.
- Implemented a backend pipeline that processed audio files with **AWS Transcribe** for speech-to-text conversion and enhanced transcript quality using **OpenAI GPT-4** for summarization and keyword extraction.
- Optimized **Django REST Framework** APIs for call uploads, transcription management, and efficient data storage in a **PostgreSQL** database, improving response times and scalability.

Data Science Intern

May 2024 – Aug 2024

Hiswai Analytics (Remote)

Vancouver, BC

- Developed interactive dashboards in **AWS QuickSight**, leveraging **SQL** and **Python** to analyze engagement metrics for **50,000+ users**.
- Investigated user retention trends by analyzing behavioral data, identifying drop-off points, and refining engagement strategies, leading to a **15% increase** in returning users.
- Collaborated with stakeholders to refine **KPI tracking**, enhancing reporting accuracy and data-driven decision-making.

Machine Learning Intern

May 2023 – Aug 2023

M2M Tech (Remote)

Vancouver, BC

- Implemented and fine-tuned **clustering and predictive models** using **Python**, **scikit-learn**, and **Bokeh**, improving feature selection and model evaluation pipelines.
- Collaborated with cross-functional teams to integrate **predictive analytics** into web applications, enhancing user engagement by **10%** through data-driven insights and visualization.
- Optimized data processing workflows and visualized large datasets using **Matplotlib** and **Seaborn**, improving analytical efficiency and clarity for stakeholders.

PROJECTS

Blogger - Full Stack Blog App | *Next.js, MongoDB, Tailwind CSS, Next.js API Routes, Axios, Mongoose*

Feb 2025

- Developed a full-stack blog platform using **Next.js** and **Tailwind CSS**, featuring a responsive UI, newsletter integration, and category-based content organization.
- Built an admin dashboard with **role-based authentication**, enabling users to add, edit, delete, and upload blog posts while managing subscribers and tracking analytics.
- Implemented **Next.js API Routes** with **Mongoose** for database interactions and utilized **Axios** for efficient client-server communication.

PickMe - Lottery Event Mobile App | *Java, Firebase, Android Studio*

Sep 2024 - Dec 2024

- Developed an **event registration and lottery application** in **Java** using **Firebase Firestore**, implementing **CRUD operations** for event creation, participant registration, and randomized lottery draws.
- Integrated **geolocation tracking** to verify participant locations and ensure eligibility for event lotteries, enhancing fairness and accessibility.
- Collaborated in an **Agile team**, using **GitHub Project Board** for sprint planning, backlog tracking, and weekly meetings to coordinate development.

TECHNICAL SKILLS

Programming & Scripting: Python, C, C++ Java, Golang, JavaScript, TypeScript, HTML5, CSS3, Tailwind CSS

Frameworks & Libraries: React, Next.js, Node.js, Express.js, Django, Flask, scikit-learn, Matplotlib, Seaborn, Bokeh

Developer Tools & Databases: Git, Linux, Firebase, Supabase, SQLite, MongoDB, Docker, GitHub Actions, CI/CD Pipelines, Postman, AWS (Amplify, QuickSight, S3, DynamoDB, Transcribe, OpenSearch, Lambda)