

# 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

*Ment (Remote)*

Sep 2024 – Dec 2024

*Hamilton, ON*

- Led the development of a real-time transcription tool using **OpenAI API** and **AWS Amplify**, automating speech-to-text conversion and reducing manual note-taking by **80%**.
- Implemented real-time streaming with **AWS Amplify** to ensure low-latency conversation transcription, enhancing mentor-mentee collaboration.
- Optimized GraphQL backend services by caching API responses and restructuring database queries, improving response times by **27%** and system scalability.

### Data Science Intern

*Hiswai Analytics (Remote)*

May 2024 – Aug 2024

*Vancouver, BC*

- Analyzed user retention trends for search engines and websites, using **SQL** and **Python** to track bounce rates and session durations across **50,000+ users**, identifying key drop-off points and increasing returning users by **15%**.
- Conducted behavioral analysis on organic vs. paid traffic, uncovering a **22% higher retention rate** for organic users, leading to a refined marketing strategy.
- Worked closely with the client to optimize website navigation and search algorithms, resulting in a **12% increase in user retention** and a more intuitive browsing experience.

### Machine Learning Intern

*M2M Tech (Remote)*

May 2023 – Aug 2023

*Vancouver, BC*

- Completed structured training on machine learning fundamentals, delivering **5+ projects** with data preprocessing, feature engineering, and model evaluation using **Python (scikit-learn, Bokeh)**.
- Applied k-means clustering on **10,000+ data points**, improving segmentation accuracy by **15%** through hyperparameter tuning.
- Presented model insights to the client, providing actionable recommendations and refining predictive models to align with **real-world constraints**.

## PROJECTS

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

Sep 2024 - Dec 2024

- Developed a lottery-based event app in Java, leveraging Firebase Firestore for live updates and data storage.
- Implemented QR code scanning, geolocation tracking and user authentication to enhance security and usability.
- Collaborated in Agile sprints, refining features through sprint planning, iterative development, and code reviews.

### NutriSmart - Responsive Meal Subscription Website | *HTML, CSS, JavaScript*

Jan 2025 - Feb 2025

- Planned website structure with wireframes, focusing on layout, typography, and color schemes for user engagement.
- Built a responsive website using CSS Flexbox and Grid, adding animations and JavaScript for interactivity.
- Ensured accessibility and cross-browser compatibility to deliver support diverse users and devices.

## TECHNICAL SKILLS

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

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

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