

Mohammed Abaan

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

GPA: 3.80

American University of Sharjah (AUS), UAE

Bachelor of Science in Computer Science

August 2022 - June 2026

Relevant Coursework: *Machine Learning, Neural Networks & Deep Learning, Intelligent Recommendation Systems*

Awards & Honors: **Chancellor's List** (AY 23–24, AY 24–25), **Dean's List** (Fall 23 – Fall 25), **UG Research Grant**

EXPERIENCE

Junior Software Developer

GC International, Dubai, UAE
June 2025 – August 2025

- Led delivery of **public website** and **hiring system**, cutting application processing time by **40%**
- Built with **Astro/React/Three.js** and Airtable CMS; deployed on **AWS Amplify** with **Lambda**

Data Science Intern

Aura Technologies, Dubai, UAE
June 2024 – Aug 2024

- Built **AI matching** using **FAISS** & **fuzzy logic**, reducing manual validation by **~80%**, improving revenue by **~25%**
- Analyzed customer behavior using **Python, SQL**, and **Excel**; supported QA testing and usability reporting

Information Technology Intern

Etihad Water & Electricity, UAE
May 2025 – Jun 2025

- Built dynamic **SharePoint** sites and custom **.NET** pages using **jQuery**
- Supported IT operations across **vSphere VMs, AD, Power BI** dashboards, and **on-prem cloud** infrastructure

Teaching Assistant

Department of Computer Science & Engineering, AUS
June 2024– Present

- Conducted labs/tutorials, reinforcing lecture concepts and driving student participation.
- Created and graded assignments/projects, supporting students via office hours/email with detailed feedback

Research Assistant

Departments of CSE and Finance, AUS
June 2025– Present

- Built and benchmarked **ML models (Transformers, CNNs, LSTMs)** for signals, NLP, and anomaly detection
- Developed **Python tools** integrating external **APIs** for company profiling, anti-fraud, and AML

PROJECTS

CloudDesk – Serverless IT Ticketing Platform

[\[GitHub\]](#)

- Built a **serverless** IT ticketing platform on AWS using API Gateway, Lambda, **DynamoDB, Cognito**, and S3
- Implemented **JWT** workflows, optimized DynamoDB queries with GSIs, and added **CloudWatch** logging

ReversePrompt – Social Signal Triage, Routing, and Guidance

[\[GitHub\]](#)

- Built a **multi-agent** AI pipeline for **public-signal** detection, risk scoring, routing, and reverse-prompt generation
- Produced evidence-backed, confidence-scored guidance using **RAG** and an LLM guardrail with a feedback loop.

FishNet – Usable Phishing Detection Extension

[\[GitHub\]](#)

- Multi-stage browser extension for **real-time** URL analysis and **ML classification**
- Achieved **~99% detection accuracy** with an end-to-end pipeline (features, similarity checks, scoring)

KHAYAL – Arabic EEG Imagined Speech Sentence Classifier

[\[GitHub\]](#)

- First EEG-based imagined speech classifier for Arabic language sentences using a novel pipeline
- ~95% accuracy** using Transformers, Diffusion models, and LLM-based RAG reconstruction

Anime Recommendation Model

[\[GitHub\]](#)

- Scraped anime forums and built a hybrid recommender using **TF-IDF, CF, ALS**, and **autoencoders**
- Balanced personalization, popularity, and diversity while mitigating cold-start issues; **RMSE: 1.21/10**

SKILLS & CERTIFICATIONS

Certifications: AWS Certified Cloud Practitioner (CLF-C02)

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

Technical: Cloud Architecture, Data Science/ML, Docker, Git