

MUHAMMAD ZAID DAR

Computer Science Graduate | Software & AI Engineering

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EDUCATION

American University of Sharjah (AUS)

Aug 2022 - Jun 2026

B.S. in Computer Science, CGPA: 3.79/4.00

Sharjah, UAE

Honors: Merit Scholarship; Petrofac Endowment Scholarship; Chancellor's List; Dean's List

Relevant Coursework: Data Structures & Algorithms; Database Systems; Operating Systems; Computer Networks; Artificial Intelligence; Machine Learning; Neural Networks; Cloud Computing

TECHNICAL SKILLS

Programming: Python, C++, JavaScript, SQL, Dart, R

Web & Mobile: Flutter, React, Node.js, HTML/CSS, WordPress, REST APIs

AI/ML: PyTorch, Deep Learning, NLP, ASR, Speech Processing, Data Preprocessing, Model Evaluation

Tools & Platforms: Git, GitHub, MongoDB, Linux, Docker, Azure, Google Colab, Power BI

TECHNICAL PROJECTS

Walaw Aya: Quranic Recitation & Tajweed Error Detection App (Senior Design Project)

Aug 2025 - May 2026

Python, Flutter, Dart, whisper.cpp, Dart FFI, Silero VAD, ASR, Deep Learning

- Built an on-device Android prototype for Quranic recitation practice with verse-by-verse and continuous workflows, word-level mismatch highlighting, error review, reference audio playback, and configurable settings.
- Fine-tuned Whisper-based Quranic ASR models using recitation data from 25 professional reciters; achieved 0.294% CER, 1.389% WER for base transcription, and 98.7% Tajweed F1 on the validation set.
- Integrated Flutter/Dart UI with native whisper.cpp through Dart FFI, Silero VAD, and local audio preprocessing to run speech inference without a remote inference server.

Amazon Dataset Recommendation System

Jan 2025 - May 2025

Python, pandas, NumPy, SciPy, implicit ALS, Sentence Transformers, PostgreSQL

- Developed and evaluated a hybrid e-commerce recommendation system using the Amazon Video Games dataset, testing ALS performance with RMSE, Precision@k, Recall@k, and F1@k to identify effective latent-factor and top-k recommendation settings under >99% sparse user-item interactions

EXPERIENCE

Information Technology Intern

May 2025 - Jul 2025

Etihad Water & Electricity (EtihadWE)

Sharjah/Ajman, UAE

- Completed rotational IT internship across help desk, ticketing systems, data analytics, web development, GIS, SAP ERP, networking, cybersecurity, and on-premises data center teams.
- Built Power BI dashboard prototypes and gained exposure to enterprise workflows for incident handling, virtualization, network architecture, server operations, and security monitoring.

Software Engineering Intern

Jul 2024 - Aug 2024

Pets Petter

Abu Dhabi, UAE

- Updated customer-facing WordPress pages and frontend content, improving usability and content presentation for a pet grooming business.

Engineering Tutor

Sep 2024 - Nov 2024

Engineering Learning Center, American University of Sharjah

Sharjah, UAE

- Tutored Programming I/II, Digital Systems, and Calculus I, helping students strengthen core engineering concepts and prepare for coursework assessments.

AWARDS & LEADERSHIP

Undergraduate Research Grant — AUS, 2026: AED 5,000 award supporting development of Walaw Aya.

3rd Place — Mashreq Bank Bounty, 2026: Built a responsible AI concept for social signal intelligence in banking.

Top 6 Finalist — Odoo Hackathon 2025: Built an Odoo food-rescue CSR module for leftover food collection.

Treasurer — Artificial Intelligence Club, AUS, 2026: Supported club operations as executive board treasurer.

Vice President — Virtual Reality Club, AUS, 2025–2026: Led club engagement; club won 3rd place for Best Club Fair Stand.

LANGUAGES

English (Native/Bilingual)

Urdu (Native/Bilingual)

Arabic (Elementary)