

# Mohammed Ali Abdul Basheer

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## Professional Experience

**GulfTainer** *(Full-Stack Developer Intern)*

June 2025- Aug 2025

### Cost Optimization Revenue Enhancement Platform

(React, Next.js, FastAPI, Azure, SQL)

- Developed a modern web app for setting targets approvals, and KPI drill-downs with intuitive dashboards and full auditability.
- Centralized reporting and streamlined approvals with secure role-based access; accelerating leadership reviews and usability.

### Leave Management System — Mobile Web App for Frontline Workforce

(FastAPI, HTML/JS, MySQL, Entra, Python)

- Developed a secure, mobile-first platform to streamline leave management for shift workers.
- It incorporates device-level security and role-based approval systems for efficient processing.
- Enabled employees to request/approve leave without need for PCs, reducing manual follow-ups.
- Architected CI/CD pipelines to support this project.

**EzeeTech** *(Full-Stack Engineer Intern)*

June 2024- Sep 2024

(Python,HTML, CSS, JavaScript, cPanel,Wordpress,Elementor)

- Designed, implemented and deployed over 6+ custom fullstack websites tailored to individual client needs.
- Helped train and deploy a proprietary python based deep learning model for network latency optimization.
- Lead individual projects from gathering client requirements to cloud deployments.

## Education

**American University of Sharjah**, Sharjah, UAE

Fall 2020 - Fall 2024

Bachelor of Science, Computer Engineering

CGPA **3.08** Merit Scholar recipient

**Relevant Coursework** : Neural Networks, Machine Learning, Software Design, Software Engineering, Object-Oriented Programming, Database management system, Data structures, Computer architecture

**Dunes international school**, Khobar, KSA

Aug 2018 - June 2020

High School

GPA **92.4%** | SAT I **1120** | SAT II **2110**

## Skills

**Programming Languages** : Python, C++, JavaScript, HTML, CSS, TypeScript, Java

**Frameworks** : FastAPI, Next.js, React, React Native, Tailwind CSS

**DB** : MySQL, Oracle SQL

**AI/ML** : TensorFlow, Keras, Deep learning, RAG pipelines, CNNs, LanceDB, FAISS, Ollama, scikit-learn, Pandas, NumPy

**Tools** : Microsoft Azure (App Service, Entra ID), Joget, CI/CD(Git Actions), Docker

## Personal Projects

### Whatsapp Open Source AI Chatbot for Household Budgeting

Dec 2024 - Feb 2025

(Python, selenium, ollama, Deepseek r1)

- Developed an ai chatbot for budgeting services capable of parsing any relevant data from a whatsapp group.
- Implemented a local secure instance of deepseek llm meant for direct user interaction.

### Camp Management System

Sep 2025 - Oct 2025

(React, Next.js, Tauri,SQL)

- Built a scalable desktop app for comprehensive camp management.
- Features real-time visualization of camp layout, occupancy, inventory and maintenance statistics.
- Architected key operational flows for check-in/check-out, inventory, utility tracking, & maintenance cycles.
- Optimized workflows leading to 10% decrease in utility costs.

## Academic Projects

### Gaze Tracking & Mimicking for Robotic Head Control

Jan 2024 - Dec 2024

(Promethe simulator, Pololu, C++, Python)

- Designed a novel approach for gaze tracking using bio-inspired neural networks which mimic human infants gaze-learning patterns.
- Integrated learning-based control for robotic eye and head movement using Promethe neural simulator.
- Achieved 92–93% accuracy on 420 unseen images by leveraging salient-point features and tuned exclusion windows—demonstrating strong generalization from small datasets (30 training images).

### Diamond Grading & Price Estimation using Multi Output Neural Networks

Aug 2024 - Dec 2024

(Python, Keras, Tensorflow, Pandas)

- Developed a multi-output 2D convolutional neural network to grade diamonds by cut, clarity, color & price.
- Achieved up to 82% accuracy in estimating diamond grades for cut, clarity, color & price from a single image.

### Temperature Monitoring System with Observer Pattern

Feb 2024 -Mar 2024

- Implemented real-time updates across multiple zones using thread synchronization via the Executor framework.
- Integrated the system with Raspberry Pi 3B for sensor-based temperature tracking.

### University Food Delivery Web Application

Sep 2024 - Dec 2024

(HTML, CSS, JavaScript, and MySQL)

- Developed a web-based application to cater to university food delivery services.