

ABDULRAHMAN AWADH SAEED ASBAN

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PROFESSIONAL SUMMARY

Computer Science (Artificial Intelligence) student with strong hands-on experience in building AI systems, RAG-based applications, OOP systems, relational databases, and web applications. Completed a 4-month AI internship at Innovation Team, Riyadh, Saudi Arabia, where I worked on real-world AI projects. I developed a personal portfolio website featuring a RAG-powered chatbot trained on my own resume, capable of answering questions about my background. Proficient in Python, SQL, Java, C#, JavaScript, React, and Linux. Seeking opportunities in Artificial Intelligence, Machine Learning, or Intelligent Systems to apply technical skills in real-world solutions.

EDUCATION

Bachelor of Computer Science (Hons.) – Artificial Intelligence

Asia Pacific University of Technology & Innovation (APU / APIIT), Malaysia

Dual Award with De Montfort University, UK

WORK EXPERIENCE

AI Intern | Innovation Team | Riyadh, Saudi Arabia | 4 Months

- Worked on real-world Artificial Intelligence projects in a professional environment.
- Designed and implemented RAG (Retrieval-Augmented Generation) systems using LLMs and vector databases.
- Collaborated with the team to build and integrate AI-powered solutions into products.
- Gained hands-on experience with AI pipelines, prompt engineering, and document-based knowledge retrieval.

Administrative Secretary | Educational Complex | Saudi Arabia |

- Managed official documentation and handled payroll records with accuracy and confidentiality.

Photographer / Videographer | Graphic Designer (Photoshop)

- Captured and edited photos and videos for events and marketing content.
- Designed posters, banners, and visual media using Adobe Photoshop.

PROJECTS

Personal Portfolio Website with RAG Chatbot — Python, [React](#), [RAG](#), [LLM](#), [HTML](#), [CSS](#), [JS](#)

- Built a fully personal portfolio website showcasing projects, skills, experience, and contact information.
- Integrated into a RAG-powered chatbot trained on personal resume data it answers questions about background, skills, and experience intelligently.
- Implemented a direct email contact system allowing visitors to submit their name, email, and message which is sent directly to inbox.
- Deployed and maintained the full-stack application combining frontend (React/HTML/CSS/JS) with an AI backend.

AI Housing Chatbot — [Botpress \(Low-Code\)](#), [Knowledge Base](#)

- Designed and built a low-code AI chatbot using Botpress platform specifically for university students seeking accommodation.
- Collected and structured data on nearby housing options including prices, distance to campus, public transport, and available amenities.
- Trained the bot on the structured knowledge base so it can answer any student query accurately and conversationally.
- Focused on usability and practical coverage of real housing options around the university.

Hotel & Flight Booking System — Python (*Console-Based, OOP, Role-Based Access*)

- Built a fully console-based multi-user booking system in Python with no GUI — logic-only implementation.
- Supported 4 user roles: Admin (manages users, offers, platform), Merchant (adds flights/hotels, confirms bookings), Traveler/User (browses and books), Guest (read-only, must register to book).
- Implemented role-based access control, session management, and automated booking notification flow from traveler to merchant.
- Demonstrated strong Python logic, data structures, and multi-role system design without reliance on a framework.

Online Library System — SQL, *ERD, Normalization, CRUD*

- Designed a full relational database system for library management from scratch using pure SQL.
- Produced complete ERD (Entity Relationship Diagram) and applied database normalization techniques.
- Implemented all SQL operations: CREATE TABLE, INSERT INTO, SELECT, UPDATE, DELETE, and relational joins.
- Focused entirely on database design and query logic without any application layer.

Car Maintenance Management System — C#, *OOP, ASP.NET (Desktop, Multi-Role)*

- Developed a multi-role desktop application for managing a car maintenance company with a GUI using ASP.NET framework (desktop, non-web).
- 4 user roles: Admin (users, offers, services management), Receptionist (receives customer requests, assigns tasks to mechanics), Mechanic (views assigned tasks, updates status, requests resources), Customer (registers, selects services for their vehicle).
- Applied solid OOP principles including encapsulation, inheritance, and polymorphism throughout the system.
- Handled full maintenance workflow from customer service request to mechanical task completion.

Purchase Order System — Java, *OOP, NetBeans GUI, Multi-Role*

- Built a supermarket sales and inventory management system with a full graphical user interface using NetBeans.
- 5 user roles: Admin, Sales Manager, Purchase Manager, Finance Manager, Inventory Manager — each with dedicated permissions and dashboards.
- Managed product purchasing, sales orders, inventory tracking, and financial reporting across roles.
- Implemented structured OOP design with clean separation of concerns and intuitive GUI.

PyLearn Web Application — ASP.NET, *C#, HTML, CSS, JavaScript, Multi-Role*

- Created an educational web platform teaching Python programming to beginners.
- 3 user roles: Admin (manages lessons, quizzes, and users), Learner (browses and attends lessons, takes quizzes, earns completion certificate), Guest (read-only lesson preview).
- Built with full ASP.NET stack: C# backend, HTML/CSS/JS frontend — demonstrating end-to-end web development skills.
- Included quiz/assessment module and certificate generation for course completion.

Data Analysis Project — R *Language, Statistical Analysis*

- Worked with large datasets containing thousands of records requiring preprocessing before analysis.
- Performed data cleaning, handling of missing values, outlier detection, and data transformation using R.
- Applied multiple statistical and analytical techniques to extract meaningful insights from raw data.
- Produced visualizations and summaries to communicate findings effectively.

Mushroom Chaos – 2D Game — Python, *Pygame*

- Designed and developed a 2D platformer game inspired by Super Mario using Python and the Pygame library.
- Implemented game mechanics including character movement, collision detection, scoring, and level design.
- Demonstrated creative application of Python beyond data/AI use cases — covering graphics, physics, and game loops.

Email Server System – Network Administration — Rocky *Linux Server, Ubuntu Client, Oracle VirtualBox*

- Set up a complete email server infrastructure using Rocky Linux as the server and Ubuntu as the client, all within Oracle VirtualBox virtual machines.

- Configured mail transfer agent (MTA), DNS settings, and network communication between virtual machines.
- Demonstrated practical Linux system administration and network configuration skills.

TECHNICAL SKILLS

Programming Languages: Python, Java, C#, SQL, R, JavaScript

Web & Frameworks: React, ASP.NET, HTML, CSS, JS

Databases: MySQL, SQL Server, Relational DB Design, ERD, Normalization

AI & Data: RAG Systems, AI Chatbots, Knowledge Base Design, LLMs, Prompt Engineering, Data Cleaning & Analysis

Cloud & Infrastructure: OCI (Oracle Cloud Infrastructure), Linux (Rocky, Ubuntu), Oracle VirtualBox

Tools & Platforms: Botpress, NetBeans, Photoshop, Git, Pycharm, VS Code, Visual Studio Community

Concepts: OOP, CRUD Operations, Multi-user Systems, Role-Based Access Control, Network Administration

SOFT SKILLS

Teamwork • Leadership • Problem Solving • Communication • Project Planning • Adaptability

CERTIFICATIONS

- AI Fluency — Microsoft Learn
- Introduction to Cloud Infrastructure — Microsoft Learn
- Red Hat System Administration I (RH124 – RHA), v9.3

LANGUAGES

- Arabic — Native
- English — Listening, Reading, Writing, and Speaking (Professional Working Proficiency)