

Aamir ABDUL KADER

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EDUCATION

Bachelor of Science in Information Systems

University of Doha for Science and Technology

• CGPA: 3.41/4.0

Graduation: August 2025

Doha, Qatar

EXPERIENCE

AFYA AI

Software Lead

February 2026 - Present

Doha, Qatar

- Led product and technical delivery of the AFYA AI hospital management system (HMS) across patient mobile, clinical dashboard, self-service kiosk, and backend systems.
- Defined platform architecture and drove cross-team execution, aligning frontend, backend, data models, tenancy, security, and workflow design into a unified product.
- Led delivery of the platform's core patient and operational workflows, connecting access, scheduling, service coordination, and localized user experience into a cohesive system.
- Guided engineering execution from initial platform setup to integrated multi-application rollout, coordinating contributors, shaping implementation standards, and maintaining development momentum across the shared codebase.

CampusPark+

Technical Advisor

March 2026 - Present

Doha, Qatar

- Advising on a smart AI-powered parking solution currently developed at university scale, designed to be scalable to broader infrastructures, enabling users to discover and book parking spaces.
- Overseeing technical details and architecture decisions across the platform.
- Advising on UI design and feature development to improve user experience.
- Guiding roadmap planning and scoping of future features.

AISCIA Informatics

Software Engineer

July 2025 - October 2025

Doha, Qatar

- Completed platform redesign and cloud migration initiated during internship, improving system reliability and performance.
- Implemented Unicorn WSGI server with Celery task queue, increasing concurrent request handling by 900% for asynchronous ML tasks.
- Full Stack development of ModuleAI, serving pre-trained ML models across 5 industrial sectors with optimizers and batch prediction system for manufacturing optimization.
- Led company website migration from WordPress to Cloudflare, improving performance and security.
- Developed ML prototype for Shell AI Hackathon, achieved runner-up status in startup category (7,500 Teams).
- Managed all technical aspects including deployment scripts, Git workflows, and system maintenance for AISCIA Platform.

AISCIA Informatics

Software Engineering Intern

May 2025 - July 2025

Doha, Qatar

- Designed and implemented intuitive user interfaces with React for AISCIA platform, leading UI/UX redesign that improved user experience and website performance.
- Initiated platform redesign and cloud migration project, laying foundation for production deployment.
- Integrated machine learning prediction algorithms into computer vision tools and developed new models for intelligent analytics.
- Enhanced data visualization through graph normalization and rendering fixes.
- Managed and configured Azure Virtual Machines, including user setup, storage, and secure remote access.
- Gained hands-on experience with Docker for creating consistent development environments.
- Researched bio-chemical processes and materials to support development of Self-Driving Lab.
- Created GUI for mini-SDL in preparation for the major one.
- Actively troubleshooted and resolved technical issues across multiple projects.

University of Doha for Science and Technology

Peer Tutor

February 2025 - April 2025

Doha, Qatar

- Mentored students on IT system integrations and mobile app development, providing technical guidance on software architecture, REST APIs, SQLAlchemy ORM, PostgreSQL, React Native, Firebase, and debugging best practices.

TECHNICAL PROJECTS

RAHATAK, Guest & Gate Management System

2024 August - March 2025

Flutter, Node.js, MySQL, Firebase, WebSockets, MoobiosForge, Azure, Prisma ORM

- Developed full-stack guest and gate management system with Software Product Line (SPL) architecture enabling automated source code derivation for multiple domains and branding requirements.
- Built RESTful API with Node.js and designed MySQL database schema using Prisma ORM for multi-tenant architecture. Integrated WebSockets for real-time notifications and analytics dashboard.
- Architected system with extensibility to support future features including targeted advertising and pay parking services.

HAJZ, Restaurant Booking System

2024 February - April 2024

React Native, Firebase

- Built end-to-end reservation solution with real-time booking, table availability tracking, and intuitive drag-and-drop interface for table layout management.
- Developed user-friendly mobile application enabling diners to book tables, set dietary preferences, and specify allergens, while providing restaurants with CRM and targeted advertising features.
- Implemented real-time synchronization using Firebase for instant booking updates and availability management, alongside drag-and-drop table layout editor for restaurant staff.

SKILLS

Programming Languages	JavaScript (Node.js, React) Python (Flask) Dart (Flutter) SQL
Backend Technologies	Flask Express.js Celery Redis Gunicorn Prisma ORM SQLAlchemy FastAPI
Frontend Technologies	React React Native Electron Flutter HTML/CSS Next.js
Cloud & DevOps	Azure Docker Nginx Cloudflare CI/CD Linux
Databases	MySQL Firebase MongoDB Redis
ML	Scikit-learn TensorFlow Optuna Data Visualization PyTorch Pandas NumPy
Tools	GitHub Google Colab Figma Trello Tobii

ACHIEVEMENTS

Shell.ai Hackathon for Sustainable and Affordable Energy 2025

June 2025 - September 2025

Runner-Up (2nd Place) - Startup Category

- Led a team to Runner-Up (2nd Place) in the Startup Category, competing against 7,500 teams globally in the Fuel Blend Properties Prediction Challenge.
- Collaborated with cross-functional team to develop machine learning models and prototype predicting fuel blend properties for sustainable aviation fuel under tight competition deadlines.
- Presented technical findings and business impact to Shell.ai judging panel at the Change Makers of Tomorrow event in Bangalore, India.

VOLUNTEER

Qatar Scouts and Guides

2007 - 2017

Scout Member

Doha, Qatar

- Participated in community service, leadership development, and team-based activities over ten years as part of the Qatar Scouts and Guides program.

CERTIFICATIONS

- Foundations of Cybersecurity - Palo Alto Networks Academy
- HCIA OpenEuler - Huawei
- HCIA Cloud Service - Huawei
- Certified Peer Tutor - University of Doha for Science and Technology