

ABDULLAH HAFDH AL-OMRANI

Software Engineer — Full-Stack & Applied AI/ML

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PROFESSIONAL SUMMARY

Software engineer with hands-on experience building and deploying full-stack web and mobile systems since 2020, including booking platforms, payment integrations, secure REST APIs, and Docker/Linux deployments. Experienced in applied machine learning and computer vision, covering data preprocessing, model training and evaluation, and API-based model serving for real applications. Built ML systems for crowd analytics and X-ray image analysis. B.Sc. in Computer Science, University of Tabuk, 2026.

TECHNICAL SKILLS

Languages — Python, JavaScript, PHP, Java, Go

Backend Engineering — Laravel, Node.js, Flask, REST API Design, Token-Based Authentication, JWT, Role-Based Access Control (RBAC), Filament, Gin

Frontend & Mobile — React.js, Next.js, SwiftUI, Flutter

Databases — MySQL, Relational Schema Design

AI & Machine Learning — PyTorch, Scikit-Learn, OpenCV, Machine Learning, Deep Learning, Computer Vision, CNNs, Image Classification, Model Training & Evaluation, Data Preprocessing

MLOps & Deployment — Model Serving, REST API Integration, Inference Pipelines, Docker Containerization

Infrastructure & DevOps — Docker, Linux, CI/CD, Git, Background Queues, Webhooks, Production Monitoring

PROFESSIONAL EXPERIENCE

Freelance Full-Stack Web & Mobile Developer

Independent · Remote | 2020 – Present

- Built and deployed booking and facility automation platforms used by fitness and public-sector clients.
- Designed scalable MySQL-backed architectures supporting reservations, payments, OTP authentication, and operational dashboards.
- Implemented secure REST APIs with JWT and role-based access control (RBAC); integrated Moyasar payments, TTLock access control, and other third-party services into live workflows.
- Managed Docker/Linux deployments with background queues, webhooks, and production monitoring.

Field Training Intern (Co-op)

Haql Governorate Municipality — IT Department | 6 Months

- Supported government web applications, database reporting, and end-user technical operations during cooperative field training.

SELECTED PROJECTS

Private Fitness Pod Booking & Operations Platform

Laravel, React.js, MySQL, Filament

- Built a live booking and facility automation platform with Moyasar payment integration, TTLock access control, scheduling, packages, and operational dashboards.
- Reached 1,200+ registrations within four days of launch.

Real-Time Crowd Forecasting & Analytics Platform

Flask, MySQL, Docker, Scikit-Learn

- Built an ML-based classification pipeline to forecast crowd density and demand for venue planning, achieving over 90% classification accuracy.
- Prepared and structured operational data for model training and evaluation.
- Served model predictions through a Flask API integrated with real-time operational dashboards and containerized the application with Docker.

AI-Assisted Dental Diagnostics Platform — Graduation Project

Flask, Next.js, PyTorch

- Built a deep learning pipeline in PyTorch for automated caries detection on dental X-rays to support clinical triage workflows.
- Preprocessed dental X-ray image data for model training and evaluation.
- Served model inference through a Flask API integrated with a Next.js frontend, creating an end-to-end clinical workflow.

EDUCATION

Bachelor of Computer Science

University of Tabuk, Saudi Arabia | 2026

Coursework: Software Engineering, Databases, Web & Mobile Development

CERTIFICATIONS

- Meta Front-End Developer Professional — Meta / Coursera
- IBM Full Stack Developer Professional — IBM / Coursera
- Deep Learning Specialization — DeepLearning.AI
- Docker Foundations — Docker

LANGUAGES

Arabic — Native | English — Professional Working Proficiency