Mohammed Alabdulmuhsin

Fresh Gradate Computer Science

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Profiles

⊙ GitHub	in LinkedIn	𝕏 X	Ⓒ Coursera

Summary

Fresh Computer Science graduate and full-stack software engineer with a strong foundation in building scalable, user-focused web applications using React, Angular, Python Flask, and modern UI systems like Tailwind and Shadcn. I've delivered production-ready solutions for real users, including AI-powered tools, and content automation platforms, always prioritizing clean architecture, maintainability, and performance.

My experience spans frontend clean UI, backend logic, ORM-based data modeling, thoughtful API integrations, and deployment to production environments.

Beyond technical execution, I bring experience in workshops, mentoring, and collaborating with cross-functional teams to transform ideas into maintainable digital products. As a fresh graduate, I'm intentionally positioning myself for environments that value long-term engineering thinking, and scalable systems.

Education

King Faisal University   **August 2020 - November 2025**
Computer Science and Information Technology   Bachelor
4.30/5

Projects

Full-Stack Engineer — Adeeb Blog Platform 🌐 | **April 2025 - June 2025**

Built a modern Arabic blogging platform from scratch using the Next.js App Router architecture. Implemented key features including user authentication (Clerk), rich text editing (TipTap), media uploads (AWS S3 via DigitalOcean Spaces), and content interaction (comments, likes, categories). Developed an admin dashboard for managing users, posts, and content moderation.
Built full-stack features using **TypeScript**, **React**, **Next.js**, **Prisma**, and **PostgreSQL**, with a responsive UI designed using **TailwindCSS** and **shadcn/ui**. Integrated **TipTap** for rich text editing, **Clerk** for authentication, and **AWS SDK** with **DigitalOcean Spaces** for scalable media storage. Containerized the application using **Docker** for streamlined deployment.

Next.js, React, TypeScript, Prisma, PostgreSQL, Tailwind CSS, shadcn/ui, TipTap, Clerk, AWS SDK, Docker, RESTful APIs

Full-Stack Developer — Falatha Baby Monitoring System 🌐 | **September 2024 - May 2025**

Designed and developed a comprehensive IoT baby monitoring solution combining embedded hardware, backend AI services, and a cross-platform mobile app. The system includes an **ESP32** sensor module capturing vital signs and environment data, integrated with a **FastAPI** backend performing deep learning cry analysis using CNN model. Developed a **Flutter** mobile app featuring real-time health tracking, sleep monitoring, cry pattern analysis.

Flutter, Dart, FastAPI, Python, Deep Learning, CNN, TensorFlow, ESP32, Audio Processing, Multilingual Support, Mobile Development, Cloud Integration, Docker

Full-Stack Developer — Warfa-Check (Medical Interaction Checker) 🌐 | **July 2024 - August 2024**

Developed a multilingual Flask-based web app to detect interactions between Warfarin and user-inputted foods, herbs, or medications via text, image, or voice. Integrated a fined tuned version of **OpenAI's GPT-4o** for image analysis, **Whisper model** for voice transcription, and displayed interaction risk levels with multilingual support. Deployed the app using **Gunicorn** on **Heroku**.

Flask, GPT-4o, Whisper API, OpenAI API, JavaScript, Bootstrap 5, Web Audio API, Base64, UUID, Flask Forms, Gunicorn, Heroku, Voice Recognition, Medical AI, Fine-Tuning

Tgarob - Full Stack Development 🌐 | **July 2025 - November 2025**

Tgorob is a career guidance and learning platform using Next.js, React, TypeScript, and Tailwind, featuring adaptive track-selection tests, AI-powered job simulation chat, user-generated major experience posts with admin moderation, expert consultations, and paid courses.

Next.js, TypeScript, Tailwind CSS, lucide-react, Clerk, PostgreSQL, Prisma ORM, webhooks

Experience

Muqallam   **August 2024 - October 2025**
Full Stack Engineer
🔗 https://www.muqallam.com/

Muqallam is a startup aiming to simplifying content creation in the advertising sector through the use of generative artificial intelligence.

In my role at **Muqallam**, I am responsible for developing the landing page using Tailwind CSS, using zod for user authentication, designing and implementing database schema, create functionality for social media posting through API integration and webhooks.

King Faisal University   **April 2025**
Technical consultant   King Faisal University

Technical Consultant for Health Xcelerate2 Hackathon

Alareeb ITC   **June 2025 - November 2025**
Coop Frontend Engineer
🔗 https://www.alareebict.com

Frontend Engineer on the Smart Poultry Management System, an AI-powered web platform that automates and optimizes poultry farm operations across Saudi Arabia.
Angular, TypeScript, SCSS

Volunteering

Takamol Center for Orphan Care and Development   July 2024 - August 2024
Technical Assistant

I have taught high school students in mastering the basics of web programming, utilizing HTML, CSS, Bootstrap, and JavaScript. Helping them to create their own websites.

Adeeb Club   August 2024 - Present
Technical Manager   KFU

Deal with creating and deploying any activities websites for the club, building a system to manage member's club achievements and volunteering hours.

Artificial Inelegance and Programming (AIP) Club   August 2022 - Present
AI team | Web Dev Team member   KFU

Certifications

Advanced Training of the KAUST Academy Artificial   March 2025   **The Complete 2021 PHP Full Stack Web Developer**   June 2021
Intelligence specialization.   **Bootcamp**
KAUST Academy   Udemy ⊕

(HTML, CSS, JAVASCRIPT, BOOTSTRAP, PHP, MYSQL, PHP OOP, WORDPRESS, XML, API, JSON and REST)

Machine Learning with Python   February 2024   **Developing AI Applications with Python and Flask**   March 2024
IBM ⊕   IBM ⊕

Mathematics for Machine Learning and Data   December 2024   **Improving Deep Neural Networks:**   December 2024
Science   **Hyperparameter Tuning, Regularization and**
DeepLearning.AI ⊕   **Optimization**
       DeepLearning.AI ⊕

Skills

Problem solving skills	**Team Player**	**Adaptability**	**Fast Learning**	**excellent verbal communication**
HTML/CSS	**Tailwind**	**JavaScript/TypeScript**	**React.JS**	**Next.JS**
Python	**Version Control (Git)**	**Docker**	**DigitalOcean**	**MVC**
Jira/BitBucket/Slack	**MySQL/Firebase/PostgreSQL**	**Linux**	**Selenium**	**Agile/Scrum**

Extra Curriculum Activities

JavaScript Bootcamp   9-10 February 2025
In affiliation with AIP club and CODE Lab KFU   CODE Lab KFU

- Designed and delivered a **3-day intensive JavaScript bootcamp** covering beginner, intermediate, and advanced topics.
- Taught **core JavaScript concepts**, including ES6+ features, asynchronous programming, and API integration.
- Led hands-on coding sessions and guided participants in building real-world projects.
- Helped attendees improve their problem-solving skills and gain practical experience.

Languages

Arabic   **English**
Native   Professional efficiency

Publications

Development of an Artificial Intelligence-Enhanced Warfarin Interaction Checker Platform.   March 24, 2025
PLOS Digital Health
🔗 https://journals.plos.org/digitalhealth/article?id=10.1371/journal.pdig.0000756