OSAMAH ALNAHARI

AI Developer | Software Engineer

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PROFILE

I'm a full-stack software engineer with a solid background in building web applications with tools like React, Next.js, and Node.js. I'm truly passionate about the power of artificial intelligence and have been actively diving deep into the field, completing a certification in Machine Learning and exploring it through research. My goal is to bridge my development skills with my growing knowledge of AI. I'm particularly fascinated by MLOps and the challenge of building robust, scalable systems that can bring machine learning models to life. I thrive in collaborative environments and am excited to help build software that blends great design with smart, data-driven features.

EDUCATION

Bachelor of Software Engineering   *Aug 2021 — Dec 2025*

King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia
- **GPA:** 3.68 /4
- **Major GPA:** 3.75/4

Relevant Coursework: ICS 485 (Machine Learning), SWE471 (Deep Learning), ISE291(Introduction to Data Science), COE292 (Introduction to Artificial Intelligence), SWE 363 (Web Development), SWE 316 (Design Patterns), SWE 326 (Software Testing), SWE 387 (Project Management), ICS 202 (Data Structures and Algorithms).
Short Courses: Principles of Project Management, Research Skills.

EXPERIENCE

Web Developer intern at Niamah   *Jun 2025 — Aug 2025*

- Worked as part of a collaborative initiative between **Niamah and Qader** Establishment to develop Qader, a platform designed to empower students preparing for the Qudrat exam.
- Designed and implemented a responsive, user-friendly front-end using Next.js and Tailwind CSS, ensuring optimal performance across devices.
- Performed thorough testing, identified bugs, and implemented fixes to improve stability and user experience throughout the platform.

Undergraduate Researcher at JRCAI   *Nov 2024 — Feb 2025*

- Conducted research to evaluate the performance of large language models on Arabic NLP tasks.
- Collaborated with faculty to design experiments and analyze results to assess the models' effectiveness.

Organizing / Administration / Voluntary Work
- **KFUPM's Inbound Summer Research Program Projects Expo** — Aug 2025
  - Assisted with venue readiness, room setups, and smooth event operations.

- **Research Booth Volunteer, KFUPM** — May 2025
  • Volunteered 20 hours over 5 days providing guidance and information about undergraduate research courses; engaged with visitors, resulting in 70+ completed registrations.
- **Raed Program - Advance, Al-Fozan Academy** — Aug 2024
  • Designed an awareness initiative at KFUPM to educate students on their rights and responsibilities, promoting a culture of awareness and accountability.

RESEARCH PROJECTS

Arabic Dialect Text Sentiment Transfer using Large Language Models - Research Assistant, JRCAI

  • In progress: developing sentiment transfer models for Arabic dialect text.

Document-Level Translation from Egyptian Dialect to MSA Using LLMs - Research Assistant, JRCAI

  • Improved DeepSeek translation accuracy by 24% (BLEU score) and analyzed multiple LLMs to identify strengths and weaknesses in dialectal Arabic translation.
  • Developed a novel Egy-MSA parallel dataset with 300 manually translated documents and an 837-word Egyptian−MSA dictionary and applied linguistic rules to ensure consistency and high-quality.

Continuous Saudi Sign Language Dataset Development - Research Assistant, JRCAI

  • Collected, annotated, and verified videos of Saudi Sign Language gestures, ensuring accurate labeling and consistency for machine learning use.

Showcase/MVP of Personal Protective Equipment (PPE) - Research Assistant, JRCAI

  • Curated and preprocessed images of PPE usage, maintaining quality and standardization for model training.

SOFTWARE PROJECTS

Wamdha (ومضة) Studio Website   *Feb 2025 — CURRENT*

  • Developed a book platform enabling users to upload books, generate AI-powered summaries, and produce AI-generated illustrative images.
  • Implemented mobile previews and a fully responsive interface, improving accessibility and overall user experience.

Wamdha (ومضة) mobile application   *Jan 2025 — CURRENT*

  • Collaborated with a team to develop a Flutter mobile app that allows users to read summarized books with illustrative images, providing an interactive reading experience.

Qader   *June 2025 — Aug 2025*

  • Contributed to Qader, an innovative educational platform empowering student preparing for the Qudrat exam, in collaboration with Niamah Commercial Supply Corporation.
  • Implemented cross-platform performance improvements, enhanced UI responsiveness.

ProjectMate   *Oct 2024 — Apr 2025*

  • Led and collaborated with a team to design and develop ProjectMate, a web app that streamlines finding teammates for undergraduate projects.
  • Contributed to both front-end developments using React for a responsive user interface and back-end development with Node.js to build scalable and efficient server-side functionality.

PC-Market   *Jan 2025 — Apr 2025*

  • Developed a personal e-commerce project for buying PC components with responsive UI, admin dashboard, order tracking, email notifications, and secure payments via PayPal and credit cards.

GameEngine   *Feb 2025 — March 2025*

- Developed a personal Minecraft-like game engine in Java where players can build and destroy blocks.
- Implemented lighting, animations, and interactive gameplay with a responsive, engaging environment.

SKILLS

Full-Stack Development	**React**	**Next.js**	**Leadership**
Node.js	**SQL/NoSQL**	**REST APIs**	**Time Management**
Git/GitHub	**CI/CD**	**UI/UX Design**	**Teamwork**
Solutions architect	**MLOps**	**AWS**	**Problem-solving**
PyTorch	**Hugging Face**	**Data Preprocessing**	**Python**

CERTIFICATIONS

AWS Certified Machine Learning Engineer – Associate *Oct 2025*

- Proven ability to design, train, and deploy scalable machine learning models using AWS services.

AWS Certified Solutions Architect – Associate *Sep 2025*

- Proven ability to architect secure, scalable, and cost-optimized cloud infrastructure solutions on AWS.

Meta Full-Stack Developer, Coursera (offered by Meta) *Aug 2025*

- Completed comprehensive training in modern web development technologies, including React, JavaScript, Django, RESTful APIs, version control, and database management.

React - The Complete Guide 2025 (incl. Next.js, Redux), Udemy *Jan 2025*

- Covered React fundamentals, hooks, context API, Redux, Next.js, routing, and performance optimization.

The Web Developer Bootcamp 2025, Udemy *Sep 2024*

- Covered full-stack web development: HTML, CSS, JS, Node, Express, MongoDB.

Raed Program - Advance, Al-Fozan Academy *Aug 2024*

- Focused on designing volunteer initiatives and promoting innovation and awareness in sustainable energy.

Raed Program - Basic, Al-Fozan Academy *Feb 2024*

- Focused on the fundamentals of volunteerism, community engagement, and nonprofit organization practices.

LANGUAGES

Arabic – Native   **English - Advanced**