

# Abdulahdi Ibrahim Zubailah

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## Education

**King Abdullah University of Science and Technology (KAUST),** 06/2024 – 08/2024 | Thuwal, Saudi Arabia  
*AI Summer Program*

- Selected as one of 200 participants from over 10,000 applicants.
- Studied and applied Advanced topics such as Reinforcement Learning, Generative AI, NLP.
- Contributed to a project that developed autonomous UAV swarms using Reinforcement Learning to combat wildfires.

**King Fahd University of Petroleum and Minerals (KFUPM),** 2019 – 2024 | Dhahran, Saudi Arabia  
*Bachelor of Science / Computer Science*

- GPA: 3.944 / 4.000
- Awarded 1st Honor Distinction for outstanding performance 5 times.
- Relevant Coursework:
  - Mathematics: Calculus / Linear Algebra / Statistics / Discrete Math
  - Major: Object-Oriented Programming / Data Structures / Algorithms / Database / AI / ML / Data Science / Big Data / Computer Graphics / Game Programming / OS

## Professional Experience

**Teaching & Learning Technology Associate, KFUPM** 05/2025 – present | Dhahran

- Played a pivotal role in the inception and development of the Innovation Hub (I-HUB), including designing and executing student workshops and training programs integrating KFUPM coursework.
- Drove innovation by training students on cutting-edge technologies through hands-on projects and organizing university-wide design competitions at the I-HUB.
- Managed I-HUB equipment and supply logistics, and facilitated engagement with external content creators.
- Supported the Deanship of Academic Development with web development, computer systems, and IT requirements.

**Teaching Assistant, KAUST Academy (Seasonal)** 11/2024 – present

- Taught lab sessions for the advanced phase of the AI program, providing hands-on guidance with complex concepts, addressing student questions, and offering individualized support for 100+ students.
- Assisted professors with classroom setup and logistics, contributed to exam preparation, performed comprehensive grading of exams, and served as a point of contact for student inquiries.
- Earned 9+/10 ratings. Praised by students for simplifying complex topics.

**Associate IT System Analyst, Aramco UD&CSD** 01/2025 – 04/2025 | Dhahran

- Designed Python-based architecture using LLM APIs for natural language function calling in oil/gas operations with multiple tools to enhance operational capabilities.
- Developed and deployed an AI-powered chatbot for a platform landing page, building FastAPI services and backend workflows with OpenShift deployment.
- Engineered a camera-based app featuring a spherical cursor with face-tracking, NLP voice activation, and dynamic visualization for contextual platform interaction.
- Collaborated under Scrum methodology with rotating Scrum Masters, ensuring iterative AI solution development while aligning with enterprise standards through stakeholder updates and Azure DevOps tracking.

**Data Scientist, Mozn** 12/2024 – 01/2025 | Riyadh

- Built comprehensive knowledge base using Neo4j with multi-attribute nodes, mapping entity relationships and pathways derived from client data, implementing Hugging Face embedding models for intelligent recommendations.
- Engineered sophisticated ETL processes to extract critical information from unstructured PDFs, populating knowledge graph to power an unsupervised learning-based recommendation engine with embedding similarity ranking.

**Instructor, Shaguf** 08/2022 – 09/2024 | Riyadh (Remote)

- Created courses in Python & C and Finite Mathematics, attracting over 150 students.
- Tracked student progress and provided targeted support for struggling students; courses received an average rating of 5 stars, highlighting exceptional student satisfaction.

### Teaching Assistant, KFUPM

02/2022 – 05/2024 | Dhahran

- Worked as Lab Instructor. Taught 20+ students, and developed lab tests and projects to assess their progress.
- Graded 200+ programming assignments and tests, providing constructive feedback to improve student understanding.
- Tutored struggling students individually and in small groups in Digital Logic Design & Python subjects.
- Assisted with research projects in Bioinformatics and AI under faculty supervision.

### Engineering Intern, Baker Hughes DTC

06/2023 – 08/2023 | Dhahran

- Worked on big projects related to Natural Language Processing, Data Science, and creating a Management System.
- Developed 6 interactive Streamlit dashboards for showcasing in-house AI models and data visualization.

## Volunteering Experience

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### KFUPM Google Club, Technical Member

09/2023 – 05/2024

- Conducted and planned workshops focusing on modern tools like Streamlit for Data Science and AI.
- Served as a mentor and organizer for various Data Science and AI bootcamps.

### KFUPM IE Club (Intellectual & Electronic Club)

09/2019 – 05/2024

#### Roles:

Head of Modern Games (Sep 2021 – Jun 2023)

Event Supervisor (Oct 2019 – Sep 2021)

Member (Sep 2019 – Oct 2019, Jun 2023 – May 2024)

- Led a team of 20+ members to organize 50+ large-scale gaming events, including tournaments, workshops, and game development sessions, attracting thousands of cumulative participants.
- Directed financial decisions for events, including vendor contracts, prize pools, and resource procurement, ensuring cost-effective execution.
- Revitalized club engagement by introducing innovative event formats (e.g., Boardgame Marathon, workshops like Game Design Essentials).
- Awarded “Years of Service Honor” for 5 years of dedicated contributions.

### KFUPM Computer Club Academic Division

10/2022 – 07/2023

- Conducted 5+ help sessions on computer science subjects, aiding students in exam preparation.
- Developed a Course Evaluation page using Notion to gather insights on optimal preparation strategies for courses.

## Skills and Languages

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- **Programming Languages:** Python, Java, JavaScript, C, C#, MATLAB, R, SQL
- **Tools & Platforms:** Docker, Tableau, MySQL, Neo4j
- **Frameworks (Python):** TensorFlow, PyTorch, Transformers, SciKit-Learn, SpaCy, OpenCV, FastAPI, Streamlit
- **Techniques & Specializations:** Reinforcement Learning, Generative AI, NLP, Computer Vision, Unsupervised Learning
- **Data Science & Visualization Tools:** NumPy, Pandas, Seaborn, Plotly
- **Data Engineering:** ETL Pipelines, Knowledge Graphs, Data Visualization
- **Collaboration & Leadership:** Agile/Scrum, Teamwork, Leadership, Mentorship, Curriculum Development
- **Problem-Solving & Communication:** Critical Thinking, Creativity, Interpersonal Communication, Adaptability
- **Languages:** Arabic (Native), English (IELTS: 8.0)

## Certificates

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- Natural Language Processing Specialization - DeepLearning.AI
- Business Analytics - Udacity in cooperation with Misk Academy
- Game Design Specialization - California Institute of the Arts
- Google Advanced Data Analytics - Google
- INE Certified Junior Data Science - INE