

Hussain Kamal M Aleid

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EDUCATION

Imam Abdulrahman Bin Faisal University

Bachelor of Science in Computer Science

Dammam, Saudi Arabia

2nd Semester, Academic Year 2025

- Relevant Coursework: Artificial Intelligence, Data Structures & Algorithms, Software Engineering, Database Systems, Operating Systems, Computer Networks, Mobile Application Development, Web Development, Data Mining

EXPERIENCE

Practical (Co-op) Training

Software Interface Company

Summer 2024

Saudi Arabia

- Completed practical training program as part of degree requirements
- Applied theoretical knowledge in real-world software development environment
- Gained hands-on experience in software development lifecycle and project management
- Worked with AI/ML technologies and data processing pipelines

PROJECTS

AI-Enabled Diagnosis in Digital Dentistry | *Python, Computer Vision, AI/ML*

2024 – 2025

- Developing AI vision system to detect ectopic eruptions and dental anomalies from dental radiographic data
- Implementing comprehensive data preprocessing pipeline including filtering, denoising, contrast enhancement, region of interest detection, and image cropping
- Utilizing pre-trained AI modules and conducting model selection, training, evaluation, and deployment phases
- Designing user interface for dental professionals to interact with the AI diagnostic system
- Conducting extensive literature review and performance evaluation with multiple metrics

Database Management System | *SQL, Database Design*

2023

- Designed and implemented relational database system for business application
- Created normalized database schema with proper indexing and constraints
- Developed queries for data retrieval and reporting functionality

Mobile Application Development | *Android Development*

2024

- Built cross-platform mobile game using modern development frameworks such as Godot engine
- Applied human-computer interaction principles for optimal user experience

Web-Based Systems | *Full-Stack Development*

2023

- Developed dynamic web application with responsive design
- Implemented both frontend and backend components with security features
- Integrated data validation and user management systems

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, JavaScript, SQL, HTML/CSS

AI/ML Technologies: Computer Vision, Image Processing, Pre-trained Models, Feature Extraction, Model Training & Evaluation

Frameworks & Libraries: TensorFlow, PyTorch, OpenCV, scikit-learn, React, Node.js, Android SDK

Database Systems: MySQL, Oracle, Database Design & Optimization

Tools & Software: Git, Visual Studio Code, IntelliJ IDEA, Jupyter Notebook, Docker, Linux/Unix

Specialized Knowledge: Medical Image Analysis, Data Preprocessing, Algorithm Design, Software Engineering, Cybersecurity

Languages: Arabic (Native), English (Fluent)

SOFT SKILLS

Problem Solving, Communication, Team Collaboration, Adaptability

Time Management, Attention to Detail, Critical Thinking, Willingness to Learn