

# Hussain Kamal M Aleid

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## EDUCATION

### Imam Abdulrahman Bin Faisal University

Dammam, Saudi Arabia

Bachelor of Science in Computer Science

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

Summer 2024

Software Interface Company

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

# شهادة تخرج

## GRADUATION CERTIFICATE

يمنح مجلس جامعة الإمام عبد الرحمن بن فيصل  
حسين كمال بن محمد العيد

درجة بكالوريوس العلوم في علوم الحاسب

من كلية علوم الحاسب وتقنية المعلومات  
في الفصل الدراسي الثاني للعام الجامعي ١٤٤٦

The Council of University of Imam Abdulrahman Bin Faisal hereby confers upon

ALEID, HUSSAIN KAMAL M

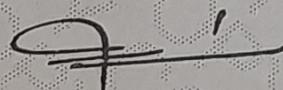
the degree of Bachelor of Science in Computer Science

from the College of Computer Science & Information Technology

in the 2nd Semester of the academic year 2025

عميد القبول والتسجيل

Dean of Admission and Registration



د. عبدالله بن سعيد آل مرير

Dr. Abdullah Saeed Almurayh

