

# FATIMA ALBURAIKI

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## About Me

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I hold a degree in **Computer Science** with hands-on experience in **application and website development, project management, data analysis, and AI model development**. I am passionate about **research, innovation, and creating smart technical solutions** that address real-world challenges. I am seeking an inspiring and dynamic environment where I can further develop my skills, contribute to impactful projects, and continue growing as a professional.

## Education

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**Najran University**, BS in Computer Science

Sept 2019 - June 2023

- **Coursework:** Object-Oriented Programming, Data Structures, Computer Architecture, Operating Systems, Database Systems, Computer Networks, Human-Computer Interaction, Artificial Intelligence, Comparison of Learning Algorithms, Computational Theory, Cybersecurity Security

## Experience

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**Digital Skills Teacher**, Al-Rowad Private Schools

September 2025 - Ongoing

- Teaching digital skills to middle and elementary school students. I explain various technical concepts, conduct scientific labs, and supervise students' technical projects at school.

**Website development**, Imam Abdulrahman University

July 2025 – Ongoing

- Created an automated certificate sending service.
- Created, modified, saved, and deleted certificate templates.
- Create an applicant service that enables login and certificate-receiving functions through the website.
- Eliminate database connection issues and create new tables to match the added features of the site.
- Add a feature to send confirmation emails to the administrator, including all information on the sent certificates.
- Improving the site and fixing problems and errors.

**Content Developer and Instructor**, SkillX

January 2024 – April 2025

- Designed and delivered comprehensive Power BI training on data analysis and visualization.
- Created course materials, exercises, and practical examples to enhance learner engagement.

**Python Programming Course for Beginners**, Najran University

Feb 2023

- Conducted a beginner-level Python programming training, covering fundamental concepts and hands-on exercises.

## Publications

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- **Title:** Emotion-Aware Smart Environment: Detection Technologies within IoT Systems Survey  
**Status:** Under Review
- **Title:** Emotion Recognition from Facial Expressions Using CNN-Based Deep Learning Models  
**Status:** Under Review
- **Title:** Towards Automated Cybersecurity Governance a Survey  
**Status:** Under Review *ICETI 2025*
- **Title:** Design and development of a mobile app : HeadRest, Migraine Tracking and Predicting System  
**Status:** Under Review – *ICETI 2025*
- **Title:** Cryptographic Algorithms to Secure IoT Devices: A Survey  
**Status:** Presented at *The 5th National Conference of Saudi Computers Colleges*

## Projects

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### Platform for teaching assistants and lecturers

- Full-stack web developer for the teaching assistants and lecturers platform, which is a platform used to publish academic vacancy announcements available at the university, apply for them, and review applications
- Tools Used: ASP.NET, C, SQL Server, HTML, Java Script, CSS

### Tawtheeq Platform

- a full-stack web developer for the Tawtheeq platform, which is a platform used to publish and document training programs that allows trainers to upload their courses, create certificates, and automatically send them to the trainers.
- Tools Used: Visual Studio, PhpMyAdmin, SQL, HTML, JavaScript, CSS

### Facial Emotion Recognition Using CNN Models

- Developed a Convolutional Neural Network (CNN) model to recognize human emotions from facial expressions, trained on the FER2013 dataset, and optimized for accurate emotion classification.
- Tools Used: Python, Kaggle, Google Colab

### Mobile app : HeadRest

- a Full-stack app developer, a smartphone system powered by AI, designed to monitor, identify, and predict migraine triggers and onset patterns using a machine learning technique
- Tools Used: Android Studio, Java, XML, Firebase, Python

## Technologies

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**Languages:** Python, C, Java, SQL, JavaScript, HTML, CSS

**Databases:** Microsoft SQL Server, MySQL, Firebase,

**Tools & Platforms:** Git, ASP.NET, Google Colab, Visual Studio Code, Android Studio, Jupyter Notebook, Kaggle, PHPMyAdmin

**Operating Systems:** Windows, Linux