

# ABDULLAH SUWAYLIH ALHARBI

Computer Science Graduate / AI & Data Engineer

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## PROFESSIONAL SUMMARY

Computer Science graduate specializing in Artificial Intelligence and Data Engineering, with hands-on experience in Deep Learning, Cloud Computing (AWS), and data-driven system development. Experienced in training large-scale Arabic Text-to-Speech (TTS) models, building agentic AI workflows, and developing full stack mobile applications using Flutter and Firebase. Passionate about AI localization, scalable systems, and accessibility for Arabic-speaking users.

## WORK EXPERIENCE

### COOP Trainee 02/2025 – 07/2025

Hail Region Municipality

- Applied data analysis techniques to clean and organize municipal datasets, supporting digital transformation initiatives.
- Provided technical support and system troubleshooting for enterprise-level government applications.
- Enhanced programming skills in C# while exploring desktop application development and cybersecurity best practices.
- Collaborated with the application development department to learn about municipal IT infrastructure.
- Created interactive Power BI dashboards with DAX formulas to present analyzed data for decision-making processes.

## EDUCATION

### Bachelor of Computer Science

University of Ha'il (UOH) 2020 – 2026

## CORE SKILLS

### AI & Machine Learning

Deep Learning, Neural Networks, Generative AI, Agentic Workflows, LLM Orchestration, Multi-modal AI, Prompt Engineering.

### Data Science

Data Cleaning/Preprocessing, Exploratory Data Analysis (EDA), Statistical Modeling, Python (Pandas, NumPy, PyTorch), SQL, PowerBI.

### Cloud & Development

AWS Cloud Infrastructure, Cloud Security, Firebase (Real-time DB, Auth), Mobile App Development (Flutter & Dart), Git/GitHub.

### Management & Soft Skills

Agile Project Management, Scrum, Problem Solving, Team Collaboration, Digital Transformation.

### Programming Languages

Python (Advanced), Dart, JavaScript, SQL, Bash, C#, HTML.

### Databases

PostgreSQL, MongoDB, Firebase Firestore, MySQL.

### Tools & Platforms

Jupyter Notebook, Google Colab, VS Code, Postman, Jira.

## LANGUAGES

Arabic

Native

English

## TECHNICAL PROJECTS

### Arabic Text-to-Speech (TTS) System

- Developed a deep learning based TTS model using advanced neural architectures for Arabic speech generation.
- Conducted 450+ hours of model training on a curated 120-hour Arabic speech dataset.
- Optimized audio quality and preprocessing pipelines to enhance speech clarity and naturalness.

### Amal App (Graduation Project & COOP Project)

- Developed a cross platform mobile marketplace connecting clients with verified service providers.
- Tech Stack: Built using Flutter for UI and Firebase for scalable backend and real time synchronization.
- Features: Integrated real-time GPS tracking, secure authentication, and a dual-interface for clients and providers.
- Applied theoretical CS concepts to solve real-world community service delivery challenges.

### Agentic AI & Multi-Modal Workflows

- Engineered autonomous AI agents for complex task automation and scalable intelligent workflows.
- Developed pipelines for text-to-image generation and automated image captioning using Generative AI.

## PROFESSIONAL CERTIFICATIONS

[AWS Fundamentals Specialization](#)

[IBM Data Analyst Professional Certificate](#)

[Google Project Management Professional Certificate](#)

[IBM Artificial Intelligence Analyst](#)

[Building AI Agents and Agentic Workflows](#)