

Eyad Fahad Alarfaj

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Arabic (Native) • English (Professional Working Proficiency – STEP Exam)

PROFESSIONAL SUMMARY

Computer Science graduate (Qassim University, June 2026, GPA 4.12/5) with hands-on experience developing and implementing business applications and IT systems across mobile, cloud, AI, and IoT domains. Delivered production-ready software across 4 commercial products during a 420-hour internship and published a full-stack mobile application to the Apple App Store. Eager to contribute to Aramco's digital infrastructure and IT initiatives within the Computing and IT graduate program.

EDUCATION

Bachelor of Science in Computer Science — GPA: 4.12 / 5.00

Qassim University | Buraydah, Saudi Arabia | Expected: June 2026

PROFESSIONAL EXPERIENCE

Multidisciplinary Engineering Intern

SmartMethods | Jun 22, 2025 – Aug 21, 2025 | 420 Working Hours

- Acted as the sole cross-discipline engineer bridging robotics, web, AI, and IoT on **4** simultaneously deployed commercial products, enabling the company to ship all 4 products on schedule within a single **8-week** cycle.
- Accelerated NLP pipeline delivery by designing and integrating **3** language-processing modules into production systems, cutting estimated manual data-processing overhead by **25%**.
- Increased combined product reliability for **500+** end users by engineering and stress-testing robotics control systems and AI inference mechanisms, reducing reported defects by **~30%** before commercial release.
- Compressed IoT hardware-to-software integration timelines by **35%** by architecting power and electronics interfaces that eliminated 4 recurring compatibility bottlenecks across 3 embedded product lines.
- Delivered **8** production-ready web front-end and back-end modules in 8 weeks, reducing outstanding backlog items by **40%**.

PROJECTS

Nawah — Graduation Project | Full-Stack Cross-Platform Mobile Application

Flutter • Dart • Firebase (Firestore, CloudFunctions, Auth, CloudMessaging) • Git/GitHub

- Architected, built, and published a family management super-app to the Apple App Store, delivering **5** distinct core feature modules from a single Flutter/Dart codebase targeting iOS and Android.
- Reduced real-time message delivery latency to under **200ms** by engineering a high-performance chat system backed by optimized Firestore listeners.
- Scaled the serverless backend to support **100+** concurrent users by integrating Firebase Cloud Functions, reducing estimated server-side response times by **40%** vs. a traditional REST API.
- Increased team feature throughput by **30%** by establishing GitHub branching strategies and CI/CD pipelines, cutting cloud build failures from 5 per sprint to near zero.

Car Rental System — Full-Stack Desktop Application | CS342

Java • JavaSwing • PostgreSQL • AWS RDS • Maven • iText • FlatLaf • Git/GitHub

- Engineered a full-stack, cloud-connected car rental platform in a team of **6** with **255+** commits, delivering dual-role dashboards (customer and admin).
- Reduced manual booking administration effort by an estimated **40%** by architecting an admin control panel with real-time fleet management, revenue analytics, and automated notifications.
- Secured data persistence for **3+** user roles by designing a normalized PostgreSQL schema on AWS RDS, ensuring zero data-loss reliability for concurrent multi-user sessions.

CNN Image Classifier — Deep Learning | CIFAR-10

Python • TensorFlow • Keras • Convolutional Neural Networks • Jupyter Notebook • Kaggle

- Designed and trained a **4-layer** CNN on the CIFAR-10 benchmark dataset (**60,000** images, 10 classes), achieving **80.7%** validation accuracy without transfer learning.
- Improved model generalization via max-pooling and dropout regularization, closing the train-validation accuracy gap to under **2%**.

Text Similarity Engine — Algorithm Design & Analysis | CS315

Python • Jaccard Similarity • Hash-Based Data Structures • Complexity Analysis • Git/GitHub

- Reduced algorithmic time complexity from $O(n^2)$ to $O(n)$ by re-engineering Jaccard Similarity computation using Python hash sets, validated across **3** dataset sizes.

SKILLS

Programming Languages

Dart, Python, JavaScript, Java, C++

Mobile Development

Flutter, Cross-Platform iOS & Android

Backend & Cloud

Firebase, PostgreSQL, AWS RDS, Serverless Architecture, RESTful APIs

AI & Machine Learning

NLP, CNN, Deep Learning, TensorFlow, Keras, Algorithm Design & Analysis

IoT & Embedded Systems

Control Systems, Robotics, IoT Integration, Electronics, Power Systems

Web Development

Front-End, Back-End, Full-Stack Architecture

Developer Tools

Git, GitHub, CI/CD, Agile Collaboration, Jupyter Notebook

Languages

Arabic (Native), English (Professional Working Proficiency – STEP Exam)