

Hassan Almosa

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PROFESSIONAL SUMMARY

Motivated third-year Computer Science (Artificial Intelligence) student with experience in IT management, multi-disciplinary projects, and leadership roles. Strong interest in artificial intelligence, machine learning, science, and web development. Seeking opportunities to apply technical expertise in real-world applications. Detail-oriented and intellectually curious, hard-working and fuelled by passion, I thrive on solving complex problems.

PROFESSIONAL EXPERIENCE

IT & Managerial Assistant – Eastern Constructions

Dammam, Saudi Arabia

February 2018 – August 2021

- Managed IT systems, networks, support, and resolved day-to-day system administration tasks.
- Handled accounting, payroll, and tax compliance for company finances.
- Acted as liaison with real estate clients and contributed to successful online marketing strategies.
- Assisted the General Manager with operations, reporting, and overseeing ongoing projects.

PROJECTS

Blockchain-based Pharmaceutical Supply Chain Solution

- Conceptualised and developed an innovative blockchain solution to address counterfeit risk and inefficiencies in pharmaceutical supply chains; built on Hyperledger Fabric with Docker-based peer nodes, incorporating smart contracts to enable tamper-proof traceability, automated verification, and secure data sharing across supply chain stakeholders.

Convolutional Neural Network for Image Classification

- Developed and optimised various deep learning Convolutional Neural Network (CNN) architectures to classify images in the CIFAR-10 dataset. Experimented with advanced models (Residual Networks and Very Deep Convolutional Networks) and hyper-parameter tuning to enhance performance and accuracy.

Machine Learning Board Games Prediction

- Conducted a machine learning analysis to predict the attributes of board games using regression and classification models. Employed data engineering techniques to enhance models performance and accuracy.

Smart Manufacturing Dashboard

- Designed and developed a web-based (front-end & back-end) platform for factory monitoring using HTML, CSS, JavaScript, PHP, and MySQL.
- Implemented real-time operation data tracking and reporting systems to support factory efficiency monitoring.

Engineers Without Borders Challenge

- Led a multidisciplinary team and designed sustainable approaches to mitigate riverbank erosion in Queensland's *Djabugandji* community

WasteID: Recycling Assistant Project

- Led and collaborated on the development of WasteID, a recycling guidance application that uses barcode and image recognition, while implementing the Agile framework and managing stakeholder relationships.

EDUCATION

Bachelor of Computer Science (Artificial Intelligence)

Flinders University, Adelaide, Australia | GPA: 6.33/7

February 2023 – November 2025

Diploma of Bioscience

La Trobe University, Melbourne, Australia

February 2014 – November 2015

SKILLS

- **Programming:** C, C++, Go, Java, Python, Haskell, Web Development (HTML, CSS, JavaScript, Node.js, REST API, PHP), SQL, Object-oriented, Functional, Procedural, and Dynamic Programming, Algorithms, Data Structures, Concurrency, Automata Design, Complexity Theory
- **Machine Learning:** Deep Learning, Exploratory Data Analysis, Data processing, Feature Engineering, Optimisation
- **IT Systems:** System Administration, Cybersecurity, Networking, Databases, Troubleshooting
- **Soft Skills:** Leadership, Project Management, Documentation, Team Collaboration, Critical-Thinking, Statistics

CERTIFICATIONS

Cisco Certified Network Associate (CCNA)

Cisco Systems

AWARDS & SCHOLARSHIPS

Chancellor's Letter of Commendation (2023)

Flinders University

"Go Beyond" Excellence Scholarship (2023)

Flinders University

King's Abdullah Excellence Scholarship Program (2013)

Ministry of Higher Education, Saudi Arabia