

OMAR ALZAHDY

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SUMMARY

Highly skilled Artificial Intelligence Engineer and Data Science enthusiast with a strong academic background and diverse professional experiences spanning freelancing, training fellowships, and participation in prestigious competitions. Currently pursuing a Master's degree in Computer Science with a specialization in Artificial Intelligence. A very self-motivated person to learn more, looking for new challenges every day and seeking opportunities to apply my knowledge to a dynamic growth-oriented role.

EDUCATION

Ain Shams University

Master of Science in Computer and Information Science.

Major: Artificial Intelligence

2023 – Present

GPA: 3.76

Ain Shams University

Bachelor of Science in Computer and Information Science.

Major: Artificial Intelligence

2019 – 2023

GPA: 3.337

- (GP, Grade: A+) **Motion Planning**
ADAS (Advanced Driving assistance system) for low-speed maneuvers (parking) environments, the project consists of an environment and a car with the system, the project aims to find an obstacle free steerable path from the initial position to the goal.
- (Research Paper) **Automating the Parking Process: A Study on Motion Planning Techniques for Autonomous Vehicles**
Published a paper sharing the process and the results of the graduation project supervised by Valeo.

EXPERIENCE

Artificial Intelligence Engineer – Freelancer

Jan 2022 – Present

- Successfully completed a range of projects as a freelancer specializing in Python, C++, and data visualizations.
- Ranked in the top 1% of freelancers for Python, C++, and data visualization projects.
- Holder of a preferred freelancer badge for delivering exceptional results and client satisfaction.

Software Engineer – Egyptian Armed Forces

Apr 2024 – Jun 2025

- Led the development of scalable front-end, web, and desktop applications with optimal performance.
- Optimized desktop applications, improving functionality and aligning with user requirements.
- Resolved 1,000+ technical issues, ensuring system stability and efficient troubleshooting.
- Utilized Microsoft Excel for advanced data analysis, building dashboards, and extracting insights.
- Developed Python-based solutions for automation, data analysis, and system integrations.
- Implemented Bash scripts to streamline workflows and enhance system efficiency.

Data Science Program – ALX

May 2023 – Nov 2024

- Mastered critical communication, leadership, and career-building skills during the ALX Foundations module.
- Developed expertise in data science tools and techniques including spreadsheets, statistics, data modeling, SQL database management, data visualization with Power BI, and Python programming.
- Applied data science skills effectively in cloud computing environments to address real-world challenges.

Techie Degree Fellowship – Valeo

Feb 2023 – Apr 2023

- Completed a rigorous 120-hour hybrid fellowship focusing on specialized topics in software development and embedded systems.
- Proficiency in C and Embedded C programming (18 hours).
- Knowledge of requirement management practices and software testing methodologies (18 hours).
- Understanding of software development for hardware interfaces (18 hours).
- Studied embedded software architecture principles and best practices (12 hours).
- Acquired skills in Real-Time Operating Systems (RTOS) and the OSEK standard (12 hours).
- Learned automotive communication protocols such as CAN, LIN & Ethernet (12 hours).
- Received an introduction to AUTOSAR (AUTomotive Open System ARchitecture) (12 hours).

Data Analytics & Visualization Specialists – ITI

Aug 2022 – Feb 2023

- Acquired in-depth knowledge and hands-on experience in various aspects of data analysis and visualization.
- Engaged in a comprehensive 120-hour online training program featuring content from Pluralsight and expert instruction from ITI instructors.
- Demonstrated proficiency in data analytics and visualization techniques through practical coursework and projects.

Software Intern – Excel Systems

Aug 2021 – Sep 2021

- Participated in a software internship focused on implementing components of a supply chain project within a group setting.
- Gained insights into the business aspects of the software industry, emphasizing collaboration, project management, and agile practices.
- Developed practical skills in software development and project implementation within a real-world business context.

TECHNICAL SKILLS

- Python (Numpy, Pandas, Flask Framework)
- Data Analysis
- Data Visualization
- Power BI
- SQL (MySQL, Postgres)
- Statistics & Probability
- Spreadsheets (Microsoft Excel, Google Sheets)
- Machine learning (Scikit-Learn)
- Deep Learning (TensorFlow)
- Git / GitHub

CERTIFICATES

Data Science Program – ALX

Foundations Program – ALX

Forward Program – McKinsey

Data science career track – DataCamp

SOFT SKILLS

- Self-motivated
- Attention to details
- Leadership
- Communication
- Critical thinking
- Team player
- Adaptability
- Curiosity

COMPETITIONS

- Robocup (3rd nationally)
- Computer Vision classification-segmentation (2nd place)
- Machine Learning, Rent it! & Segment it! (2nd place)
- Neural Networks, Weather Analysis Using Image Recognition (5th place)

VOLUNTEERING

Feb 2021 – Jun 2022 Events Head, ACM ASCIS

Oct 2019 – Mar 2020 Technical member, ApplAI

Oct 2016 – Jun 2019 Fabrication lab & IT assistant, STEM