

Hassan Sherif Mikawi

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Arab Academy for Science, Technology and Maritime Transport (AAST) Cairo, Egypt

B.Sc. in Electrical and Computer Engineering GPA: 3.3/4.00 Oct 2020 – July 2025

Relevant Coursework:: Data Structures, Theory of Computation, Databases, Computer Networking, OOP, Software Engineering, Computer Architecture, Operating Systems, Machine learning.

ALX Software Engineering (Tuition sponsored by Mastercard) Cairo, Egypt

Comprehensive full stack development course Apr 2023 – May 2024

Coursework:: Software engineering principles, full-stack development, and project management.

RELEVANT COURSEWORK & CERTIFICATIONS

● **Flutter Development Course on Udemy:** Built multiple projects: "Acade" game (XO, Hangman, Number Prediction), Quran app, and a full-stack ecommerce app with Google Auth, seller dashboard, and self-hosted database.

● **Software Engineering Course at ALX:** Covered software engineering principles, full-stack development, and project management.

EXPERIENCE

Intern at Arab Organization for Industrialization (AOI)

Contributed to the manufacturing line for hardware components. Jan 2023 – July 2023

Key Contributions:: Assisted in the optimization of the hardware assembly line, implementing lean manufacturing principles to increase efficiency and reduce waste.

Software Engineer Intern at Al-Ahram Establishment Cairo, Egypt

Internship. Sep 2024 – Dec 2024

Key Contributions:: Developed Python scripts to automate data retrieval from Microsoft SQL Server, streamlining processes for senior developers.

Key Contributions:: Built a fully functional agricultural website from the ground up, handling both front-end and back-end development.

PROJECTS

● **Flex Programming Language (Graduation Project)**

● **Description::** Developed in Python and Franco-Arab (Arabic transliteration) syntax

● **Key Features::** Integrated an AI model for error correction that explains each error directly in the terminal

● **Hyper Market Management System**

● **Description::** Revolutionized market management with a comprehensive system for sales, purchases, and employee roles.

● **Key Features::** Implemented administrative, marketing, inventory management, sales, and user modules.

● **Simple Shell**

● **Description::** Developed a UNIX command line interpreter as a group project, emulating basic shell functionalities.

● **Key Features::** Implemented functionalities including command execution, environment manipulation, and custom input handling

SKILLS

● **Languages::** C/C++, C#, Java, Python, JavaScript, Bash, SQL, Flutter

● **Operating Systems::** Windows, linux, MacOS

● **Developer Tools::** Git, SSH, Linux, VS Code, Visual Studio, Docker, Servers{linux , macos , windows Servers}

● **Methodologies::** Agile, Scrum, OOP, Functional Programming, DevOps, CI/CD, TDD