Hassan Sherif Mikawi

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EDUCATION

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*

ALX Software Engineering — Cairo, Egypt
Comprehensive full stack development course — *Apr 2023 – May 2024*

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. — *Jun 2023 – July 2023*
- 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*
- Developed Python scripts to automate data retrieval from Microsoft SQL Server, streamlining processes for senior developers.
- Built a fully functional agricultural website from the ground up, handling both front-end and back-end development.

PROJECTS

Flex Programming Language (Graduation Project)
Python, JavaScript, React, VS Code Extension — *Jan 2024 – Apr 2025*
- Developed in Python and Franco-Arab (Arabic transliteration) syntax
- Integrated an AI model for error correction that explains each error directly in the terminal

Hyper Market Management System
Java, MySQL, NetBeans, jBCrypt, FlatLaf — *Jun 2023*
- Revolutionized market management with a comprehensive system for sales, purchases, and employee roles.
- Implemented administrative, marketing, inventory management, sales, and user modules.

Simple Shell
C, Unix System Calls, GCC, Betty Coding Style — *Dec 2023*
- Developed a UNIX command line interpreter as a group project, emulating basic shell functionalities.
- 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