

## SUMMARY

I am a backend software engineer with expertise in developing web applications. My primary skills include: Python, Flask web framework, SQLAlchemy ORM. I also have full-stack experience, having worked on "iDoc" project, a website that helps users book appointments with doctors. My education includes participation in the ALX Software Engineering program, where I received a scholarship. This program covered both foundational concepts of programming and backend specialization.

## PROJECTS

### IDOC(Doctor Appointment Booking System)

- Implemented a Booking Appointment web application to connect patients with suitable doctors, featuring a user-friendly interface.
- Developed iDoc, a web application for booking doctor appointments, aimed at improving the scheduling process and communication between patients and healthcare providers.
- Utilized Python with Flask and SQLAlchemy to create a robust backend system.
- Integrated WebSockets to ensure immediate updates and notifications for appointments.
- Managed source code using Git, facilitating teamwork and version control.
- Technologies : Python, Flask, SQLAlchemy, MYSQL, Socket.io for Backend, Html5, CSS3, Javascript(ES6) and Bootstrap5 for Frontend

### Simple Shell(github)

- Developed a custom Unix shell as part of a collaborative project, demonstrating a solid understanding of operating system concepts and process management.
- Implemented command parsing, execution, and built-in command support (e.g., cd, exit).
- Managed signals for handling interactive shell behavior.
- Memory Management: Ensured efficient memory allocation and deallocation to avoid leaks.
- Implemented robust error handling mechanisms for common shell operations.
- Worked in a team, utilizing version control (Git) for collaboration and code management.
- Technologies: C, Unix System Calls, Git.

## SKILLS

JavaScript, python, C, Flask, HTML, CSS, Bootstrap, MySQL, NOSQL, NGINX, Linux Ubuntu, Git/GitHub

## EDUCATION

### Bachelor of Civil Engineering

Hydraulic Analysis & GIS Engineer for Water&Waste water systems

Sept '07 — Jul '12

Egypt

### Software Engineer, Alx Africa

A Certified Back-end Developer

Aug '23 — Sept '24

Cairo, Egypt

## AWARDS

### [EF SET certificate](#)

EF Standard English Test (EF SET)

### [Certified Software Engineer](#)

ALX Africa