Youssef Samir

Software Engineer

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PROFILE

My passion for technology began at 14 when I rooted my first Android phone and installed CyanogenMod using ADB shell commands. This experience sparked a lifelong curiosity about how computers work. Now, with a degree in Computer Science, several rigorous online courses completed, and hands-on experience building production projects, I realize I've barely scratched the surface of this field. I'm eager to continue learning and growing, and I am seeking a role where I can apply my skills and further expand my expertise in backend development.

SKILLS

Programming Languages: Python | C++ | C | C# | Java | JavaScript

Front-End: vue.js | Nuxt.js | Tailwind CSS

Databases: SQL | PostgreSQL | MySQL | MongoDB | Redis

Cloud and Containerization: Docker | Kubernetes | AWS

EDUCATION

Bachelor of Computer and Information Science, *Ain Shams University*
2024 | Cairo, Egypt

High School, *Collège de la salle*
2019 | Cairo, Egypt

LANGUAGES

English | **French** (Delf B2) | **Arabic**

PROJECTS

ACM, *Access Control Manager*
A secure access management system that uses NFC technology in mobile phones to control room entry. It provides administrators with tools for monitoring access and tracking attendance, while allowing managers to schedule room reservations and grant access based on user schedules.

- **Assembled a hardware prototype**:Built with ESP32, an NFC module, and a door lock solenoid, the prototype enabled network-connected, secure room entry through user authentication.
- **Programmed a C program using FreeRTOS**: Created a program that managed the door lock and interfaced with the NFC module via I2C, efficiently handling real-time access control tasks.
- **Developed a Java Android application**: Enabled students and managers to use NFC for secure access. Students could authenticate by tapping their phones, while managers organized events and reserved rooms.
- **Built a FastAPI backend**: Built a containerized backend using Docker to manage authentication, scheduling, and room management. Integrated Redis for caching to enhance performance and implemented cron jobs for automated tasks like log cleanup and report generation.

Scrapify
SaaS lets users scrape and download Spotify playlists for free.

- **Developed a full-stack application**: Built using Nuxt.js for the frontend and FastAPI for the backend, providing a seamless and responsive user experience for scraping and downloading Spotify playlists.
- **Implemented a microservice architecture**: Each microservice was containerized using Docker, which ensured modularity, scalability, and efficient resource management across different components.
- **Deployed to a Kubernetes cluster in the cloud**: The entire application was deployed on a cloud-based Kubernetes cluster, allowing for efficient scaling, high availability, and easy management of services in a production environment.

Ligne
Ecommerce Website For an Egyptian Local Brand.