MOHAMMAD ABU-SHELBAIA

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📍 Ramallah, Palestine

SUMMARY

Backend Developer

1. Birzeit University Graduate with a Computer Engineering degree.
2. Expertise in full-stack web development using Django and Tailwind CSS.
3. Skilled in Python for automation, web scraping, and backend services.

SKILLS

Languages: Python, LaTeX, Markdown, Bash, Assembly, Java, C, SQL, HTML, CSS

Technologies: Git, FastAPI, Asyncio, Django, Tailwind CSS, Docker, PostgreSQL, Arduino, Nginx, Gunicorn

EXPERIENCE

3/2024 – 7/2024 — **Backend Developer Intern** — **Silal**

- Developed and maintained backend services using the Django framework.
- Utilized Docker for containerization and deployment, ensuring a consistent development and production environment.
- Integrated PostgreSQL as the primary database, optimizing queries and maintaining data integrity.
- Configured and managed Nginx as a reverse proxy server to handle client requests and serve static files efficiently.
- Deployed and managed WSGI applications using Gunicorn to handle Django web application processes.
- Utilized backend services with the user interface, utilizing Tailwind CSS for styling.
- Conducted code reviews and debugging to maintain high code quality and performance.
- Implemented authentication and authorization mechanisms to secure applications.

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Docker  /  PostgreSQL  /  Nginx  /  Gunicorn  /  Django  /  Tailwind CSS
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PROJECTS

Web Scrapping
Python, iCal

Course Schedule — github.com

Developed a Python script to automate the extraction of weekly schedules from my university website and convert them into recurring iCal events. This project aimed to improve personal organization and time management by eliminating manual schedule data entry.

Django, Tailwind CSS
Nginx, Gunicorn

Django Bookstore — github.com

Developed a full-stack web application using Django and Tailwind CSS to display a collection of books. Utilized Nginx as a reverse proxy server and Gunicorn as the WSGI server to deploy the application using Docker". The project aimed to showcase skills in web development and backend services.

Robotics
ESP32, Arduino

Micromouse Robot — github.com

Designed and implemented a maze-solving robot using the ESP32 microcontroller and the Arduino framework. The robot was programmed to autonomously navigate a maze and find the shortest path to the center using the Flood Fill algorithm.

Embedded Systems
PIC16f877A-Assembly

PIC16f877A Calculator — github.com

Developed a functional calculator on a PIC16f877A microcontroller, showcasing skills in embedded systems design and assembly language programming.

EDUCATION

9/2020 - 7/2024 — **Birzeit University** — **Bachelor**

Computer Enginering

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Cumulative Average:  87%
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28th July 2024 — **Udacity** — **Nanodegree Certificate**

Data Analyst

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Certificate Link
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LANGUAGES

English - C2 (CEFR), **Arabic** - Native