




MOHAMMAD ABU-SHELBAIA

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SUMMARY

Backend Developer

- Birzeit University Graduate with a Computer Engineering degree.
- Expertise in full-stack web development using Django and Tailwind CSS.
- 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, Unicorn

EXPERIENCE

9/2024 – Present	Teaching And Research Assistant <ul style="list-style-type: none">Delivered laboratory sessions on Linux and microcontroller programming with tailored materials.Provided mentorship and technical guidance to students on assignments and projects.Developed practical exam scenarios and evaluated student performance. Teaching / Mentoring / Technical Support	Birzeit University
7/2024 – Present	Backend Developer <ul style="list-style-type: none">Continued developing and maintaining backend services using the Django framework.Built SEO-friendly product listing pipelines, integrating FastAPI with OpenAI's GPT for content generation.Deployed containerized services with Docker, maintaining efficient CI/CD pipelines.Enhanced system performance by optimizing database queries and backend logic. Docker / PostgreSQL / Nginx / Unicorn / Django / Tailwind CSS	Silal
3/2024 – 7/2024	Backend Developer Intern <ul style="list-style-type: none">Assisted in building and maintaining backend services using Django and PostgreSQL.Utilized Docker for containerization, ensuring smooth development and deployment workflows.Contributed to application styling with Tailwind CSS and integrated backend services with the UI. Docker / PostgreSQL / Django / Tailwind CSS	Silal

PROJECTS

Web Scrapping Python, iCal	Course Schedule 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.	github.com
Django, Tailwind CSS Nginx, Unicorn	Django Bookstore 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 Unicorn as the WSGI server to deploy the application using Docker". The project aimed to showcase skills in web development and backend services.	github.com
Robotics ESP32, Arduino	Micromouse Robot 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.	github.com
Embedded Systems PIC16f877A-Assembly	PIC16f877A Calculator Developed a functional calculator on a PIC16f877A microcontroller, showcasing skills in embedded systems design and assembly language programming.	github.com

EDUCATION

9/2020 - 7/2024	Birzeit University Computer Engineering Cumulative Average: 87%	Bachelor
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28th July 2024

Udacity
Data Analyst
Certificate Link

Nanodegree Certificate

LANGUAGES

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