




MOHAMMAD ABU-SHELBAIA

mabushelbaia@gmail.com
(+970) 059-415-6035

 mabushelbaia.me
 github.com/mabushelbaia
 Ramallah, Palestine

SUMMARY

Computer Engineering student at Birzeit University, graduating July 2024. Focused on backend and web development. Skilled in full-stack web applications with Django and Tailwind CSS. Proficient in Python for web scraping, automation, and data manipulation.

SKILLS

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

Technologies: Git, Django, Tailwind CSS, Docker, PostgreSQL, Arduino, Nginx, Unicorn

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 Unicorn 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.
- Docker / PostgreSQL / Nginx / Unicorn / Django / Tailwind CSS

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.

Web Scrapping
Python, Threads

NotesForProfessionals Scraper

[github.com](#)

Developed a Python script to scrape all the books/covers from the NotesForProfessionals website and download them to the local machine. Utilized threading to improve performance and synchronously download the assets.

Django, Tailwind CSS
Nginx, Unicorn

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 Unicorn 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 Engineering
Expected Graduation: July 2024
Cumulative Average: 87.4%

LANGUAGES

English - C1 (CEFR), Arabic - Native