




MOHAMMAD ABU-SHELBAIA

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SUMMARY

Undergraduate Computer Engineering student at Birzeit University expected to graduate in July 2024. Passionate about software development, embedded systems, and robotics. Experienced in **Python** as the primary programming language,

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 <ul style="list-style-type: none">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	Silal
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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
Web Scrapping Python, Threads	NotesForProfessionals Scraper 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.	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. 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 Expected Graduation: July 2024 Cumulative Average: 87.4%	Bachelor
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LANGUAGES

English - C1 (CEFR), Arabic - Native