

Youssef Itani

42 Student – Level 11+

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Education

42 Beirut - Level 11+

April 2025 – Present

42 Core Curriculum - Architecture of Digital Technologies Program

Beirut Arab University

2024 – Present

Bachelor in Computer Engineering

Selected Projects

March 2026

EasyRecipe - <https://easyrecipe.online> | Python, FastAPI, Docker, GCP, NGINX, SQLAlchemy, OpenAI Whisper, Google Gemini

- Developed RESTful API backend with FastAPI for AI-powered recipe extraction from social media cooking videos (TikTok, Instagram, Facebook)
- Integrated OpenAI Whisper for audio transcription and Google Gemini Flash for recipe analysis and structured data extraction
- Enforced JWT-based authentication system with email verification via Resend API and SQLAlchemy ORM for database management
- Deployed production system on Google Cloud Platform with Docker containerization, nginx reverse proxy, and SSL/HTTPS security (Let's Encrypt)

January 2026

Webserv | C++98, HTTP/1.1, CGI, NGINX

- Built a fully functional HTTP/1.1 web server from scratch in C++98, handling concurrent client connections through a single non-blocking poll() event loop
- Executed GET, POST, and DELETE methods with CGI script execution (Python, PHP, Perl), file uploads, and cookie-based session management
- Designed an NGINX-inspired configuration parser supporting multi-server setups, custom error pages, and per-route access rules

December 2025

Inception | Docker, Docker Compose, NGINX, PHP-FPM, MariaDB, Redis, WordPress, Bash, AWS EC2, Debian Linux

- Architected and deployed multi-container Docker infrastructure on AWS EC2 with 8 microservices (NGINX, WordPress, MariaDB, Redis, Adminer, Netdata, FTP, static site)
- Implemented SSL/TLS security, reverse proxy configuration, and Docker bridge networking for secure inter-container communication

Technical Skills

Languages: Python, Java, C, C++, SQL, HTML, Dart, Bash, Assembly

Developer Tools: Valgrind, GDB, VS Code, Eclipse, Clion, PyCharm, MPLAB X, Makefile

Technologies/Frameworks: Linux, Git/GitHub, WordPress, Flutter, FastAPI, SQLAlchemy

Cloud & Deployment: Google Cloud Platform (GCP), AWS EC2, Docker, Nginx, SSL/HTTPS (Let's Encrypt)

Project Management tools: JIRA

Relevant Coursework and Workshops

- Extra curricular Cybersecurity Piscine – 42 Beirut
October 2025
- Extra curricular Mobile Development Piscine – 42 Beirut
November 2025
- Jira Project Management Workshop - CMA CGM
July 2025
- ReactJS Workshop – 42 Beirut
July 2025

Extracurricular Activities

July 2024 – Present

Personal Fitness Coach | SPI Certified Personal Trainer, LASIP First Aid & CPR

ProGym (January 2025 – Present) | Kx Fitness Gym (June 2024 – December 2024)

- Led personalized fitness programs for diverse clientele ranging from teenagers to seniors, leveraging strong communication skills to build rapport, motivate clients through challenges, and adapt training approaches to individual needs and capabilities.

Spoken Languages

- English
- French
- Arabic