Miled Issa

42 Student – Level 3

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Education

42 Beirut - Level 3   **2025 – Present**
42 Core Curriculum - Architecture of Digital Technologies Program

University of Balamand   **2024 – Present**
Bachelor in Computer Science

Selected Projects

PharmaFlow (In Progress) | Node.js, NestJS, PostgreSQL, TypeORM, React   **2026**
- Designing a high-concurrency Pharmacy ERP with **batch-level inventory** and **FEFO (First-Expiry, First-Out)** automated allocations.
- Building a production-grade **PostgreSQL** foundation with **atomic stock triggers**, **line-item tax**, and **cost snapshots** for audit-ready profit reporting.
- Implementing secure access with **JWT (access + refresh rotation)** and **TOTP-based 2FA**, plus a role-based portal for pharmacists and cashiers.
- Developing the backend using **NestJS + TypeORM** with clean module/service architecture; building POS workflows (fast search, checkout, purchases, returns, dashboards).
- Tools: **VS Code, Postman**.

Secure Online Learning Platform | Java, Spring Boot, JavaFX, PostgreSQL   **2025**
- Built a complete online learning platform with **role-based dashboards** for admins, instructors, and students.
- Implemented secure authentication using **JWT** and **email OTP 2FA**, including protected endpoints and sensitive-action verification.
- Developed a **JavaFX** desktop client that consumes backend APIs for course, enrollment, and user management.
- Used **Spring Data JPA (ORM)** for persistence and **JavaMailSender** for email verification/OTP delivery.
- Tools: **IntelliJ IDEA, Postman**.

Online Learning Platform (Backend) | Node.js, Express.js, SQL   **2025**

- Developed a high-level backend following clean architecture: **Models → Repository → Service → Controller → Routes**, with a central **index.js** entry point.
- Built RESTful APIs with **role-based access**, admin features for managing courses/users, and structured validation/error handling.
- Designed relational schemas and implemented endpoints for users, courses, and enrollments, following an MVC-style structure with **EJS** views.
- Tools: **VS Code, Postman**.

42 Beirut Core Projects | C, Python, Unix, Algorithms, Linux   2025-2026

- Completed core system/algorithm projects (Libft, ft_printf, get_next_line, push_swap, Born2beroot, Python piscine and more), strengthening low-level programming and Linux fundamentals.
- Tools: **VS Code, Vim.**

Technical Skills

Languages: Python, C, C++, Java, JavaScript, TypeScript, SQL, HTML, CSS, Bash

Developer Tools: VS Code, IntelliJ IDEA, Android studio, Git & GitHub, Linux shell, Postman

Technologies/Frameworks: Git & GitHub, Spring Boot, JavaFX, Node.js, Express.js, NestJS, React, REST APIs, PostgreSQL, MariaDB

Relevant Coursework and Workshops

The Complete 2025 Web Development Bootcamp – Udemy (Angela Yu)   2025

- Completed 60+ hours of full-stack training and built projects using HTML, CSS, JavaScript, Node.js, Express, React, and PostgreSQL.
- Strengthened understanding of RESTful APIs, authentication patterns, and modern frontend practices.

Extracurricular Activities

UOB Developers Club – Vice President | University of Balamand   2025 – Present

- Co-lead a student developer community, coordinating events and technical activities.
- Organize coding workshops, project sessions, and tech talks to help students build practical skills.