

Michael Hawat

Computer Science Student

+961 71 227 103 ✉ michael.hawat@std.balamand.edu.lb ☐ [michaelhawat.github.io](https://github.com/michaelhawat)

Education

University of Balamand

2023 – 2027

Bachelor in Computer Science | GPA: 3.5 / 4

Selected Projects

Airline Management System | Java

- Developed a full airline management system supporting seat reservations, flight search by date and route, and fleet management.
- Designed core system logic for handling bookings, scheduling, and flight operations.
- Implemented efficient data structures and algorithms to manage flights and reservations.

Pet Shop Website | JavaScript, Node.js, HTML, CSS, EJS

- Developed a full-stack web application for managing pet services, grooming, boarding, and product sales.
- Built RESTful backend services using Node.js and Express for handling users, services, and transactions.
- Designed dynamic frontend interfaces using EJS with integrated API communication.

Pub Management System | Spring Boot, JavaFX, PostgreSQL

- Built a complete pub management system with role-based dashboards for admins and staff.
- Implemented secure authentication using JWT and email OTP 2FA with protected endpoints.
- Developed a JavaFX desktop client consuming backend APIs for managing products, tables, orders, and reservations.
- Used Spring Data JPA (ORM) for PostgreSQL persistence and JavaMailSender for OTP verification.

Boutique Management System | Spring Boot, JavaFX, PostgreSQL

- Developed a full management system with a Spring Boot backend and JavaFX desktop client.
- Designed and implemented PostgreSQL persistence for managing customers, products, orders, and reports.
- Built modular system components to support efficient business operations and reporting.

Advanced Pet Shop Management System | NestJS, TypeORM, React, PostgreSQL

- Developing the backend using NestJS and TypeORM with a clean module and service architecture, while building a React frontend for POS workflows such as fast search, checkout, purchases, returns, and dashboards.
- Building a structured PostgreSQL database with support for transactions, customer data, and business statistics.

Portfolio Website | *HTML, CSS, Bootstrap*

- Developed a responsive portfolio website to showcase projects, skills, and experience with a clean design and user-friendly interface.

<https://michaelhawat.github.io/Portfolio>

Technical Skills

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

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

Technologies/Frameworks: Spring Boot, JavaFX, Node.js, Express.js, NestJS, React, REST APIs

Databases: PostgreSQL, MariaDB

Project Management & Practices: Git workflows (branching, pull requests), code reviews, agile mindset, documentation, and clean coding standards

Analytics & Reporting: Basic data analysis, data cleaning, structured datasets, reporting and visualization fundamentals

Relevant Coursework and Workshops

Advanced Web Programming, Java Technology, Object-Oriented Programming, Database, Data Structures, Networking, Accounting, Statistics, Computer Graphics.

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.

Experience

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- Completed an intensive coding program focused on C programming, algorithms, Unix systems, and shell scripting.

Languages

- English
- Arabic
- French
- Spanish

References

Dr. Hamid El Debs | Professor

Computer Science, University of Balamand

Email: Hamid.ElDebs@balamand.edu.lb