

# Ahmad Ghaddar

Software Engineer

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## EXPERIENCE

### Personal Project

POS System ↗

10/2025 - 12/2025

<https://github.com/ahmadghaddar05/smartpos.git>

- Designed and implemented a production-style full-stack Point of Sale system with a strong emphasis on database reliability, relational modeling, and SQL-based business logic
- Engineered the backend using Spring Boot to provide REST APIs backed by MariaDB, including optimized table structures for products, sales, returns, and inventory movements
- Developed transaction-safe inventory management logic, ensuring accurate stock updates through atomic operations and preventing inconsistencies during concurrent modifications
- Implemented backend processes for database-driven reporting, enabling real-time sales summaries, product insights, and audit-friendly record keeping
- Applied SQL indexing, pagination queries, and efficient JOIN operations to improve data retrieval performance
- Built full CRUD operations for inventory and sales modules, including backup-aware data handling and structured error recovery
- Created a responsive React (TypeScript) frontend integrated with backend REST APIs using Axios, ensuring smooth synchronous and asynchronous communication with the database services

### Mobile Development Intern

XpertBot Academy

03/2025 - 09/2025

- Developed a cross-platform mobile application using Flutter named sportsleb
- Built interactive UI screens with responsive layouts.
- Implemented navigation, state handling, and API-driven data display
- Focused on clean UI design and user experience
- Demonstrated ability to learn and apply new technologies in a live application

## CERTIFICATES

Flutter Mobile Application Development — Certificate of Completion

## SUMMARY

Computer Engineering student with strong hands-on experience in backend development, database design, and system-level problem-solving. Skilled in building full-stack applications with an emphasis on reliable data storage, SQL-driven logic, and API-based architecture. Experienced with relational databases such as MariaDB and SQL, including schema design, performance-oriented queries, and transaction-based logic. Motivated to continue growing in database administration, backend engineering, and high-availability system management.

## SKILLS

Backend: Spring Boot (Java), Node.js

Frontend: ReactJS, TypeScript, JavaScript, HTML/CSS

Concepts: Full-stack development, REST APIs, API-driven architecture

Databases: MariaDB, SQL

Tools: Git, GitHub

Math / Logic: Arithmetic-based business logic (pricing, taxes, inventory calculations)

Other: Flutter, Python basics, ML tools (PyTorch, TensorFlow, Scikit-learn)

## LANGUAGES

Arabic	Native
English	Fluent

## EDUCATION

Lebanese American University (LAU)

09/2023 - 12/2027

B.E in Computer Engineering