YAAKOUBI AYOUB

SWE STUDENT | BACKEND DEVELOPER

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SUMMARY

First-year Software Engineering student with a strong foundation from two years of preparatory classes and a dedicated focus on backend development. Eager to leverage analytical skills and technical knowledge to build robust server-side architectures, scalable APIs, and efficient database systems. Passionate about solving complex problems and collaborating on innovative software solutions.

TECHNICAL SKILLS

Languages & Core:
Python, Java, C/C++, JavaScript, SQL

Backend & APIs:
Spring Boot , RESTful APIs

Databases & Tools:
MySQL, PostgreSQL, Git/GitHub, Docker, Linux

ACADEMIC & PERSONAL PROJECTS

Spring Boot Blog Platform | Personal Project **Jul 2026**

- Designed and built a scalable backend for a blogging application using Spring Boot, following clean MVC architecture.
- Developed stateless RESTful APIs to manage post creation, user authentication, comments, and role-based access control.
- Structured data persistence and repository layers, ensuring efficient database queries and clear separation of concerns.

Full-Stack Task Management Application | Personal Project **Nov 2026**

- Engineered a full-stack todo and task management system using Java 21, Spring Boot, and PostgreSQL for the backend, paired with a React frontend.
- Implemented a layered backend architecture featuring RESTful APIs, DTOs, mappers, constructor injection, and centralized exception handling.
- Containerized the PostgreSQL database environment using Docker Compose to streamline local development and deployment.

EXPERIENCE

Carpooling Desktop Application (CarpoolingApp) | OOP Course Project **May 2026 _ISSATso**

- Developed a desktop carpooling management system in Java built with Maven and JavaFX/FXML.
- Embedded SQLite for local database management to persistent driver/passenger profiles, ride bookings, and real-time driver balance tracking.
- Applied core Object-Oriented Programming (OOP) principles, modular design patterns, and clean error handling.

EDUCATION

First Year of Software Engineering | ISSATso **Sep 2026 - Present**

- Focused on software architecture, advanced data structures, and database management systems.
- Relevant Coursework: Object-Oriented Programming, Advanced Algorithms, Database Systems, Computer Networks.

Preparatory Cycle for Engineering Studies (Prep) | ISSATso **Sep 2024 - May 2026**

- Intensive multidisciplinary training in mathematics, physics, and fundamental computer science (Rigorous scientific and analytical foundation).

ADDITIONAL INFORMATION

- **Languages:** Arabic , French , English.
- **Certifications:** Cisco Certified Network Associate (CCNA: Introduction to Networks)— In Progress (Expected Completion: Jan 2027).
- **Awards/Activities:** 4th Place Winner – TWISE Night Open Challenge Hackathon (May 2025)