AYA LAMOUCHI

Information Systems Student ~ Web Development & AI

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PROFILE

Third-year student pursuing an Applied Bachelor's Degree in Information Systems Development at ISET Bizerte. Passionate about programming, web development, and artificial intelligence. Curious and meticulous, with strong commitment to both technical and community projects. Constantly seeking new challenges and opportunities to enhance my skills, both in team settings and independently.

Currently seeking a **Final Year Project Internship (PFE)** to complete my degree and apply my technical, analytical, and teamwork skills in a professional environment.

TECHNICAL SKILLS

Programming Languages
C, Java, PHP, Python, JavaScript, TypeScript, Kotlin, Dart (Flutter), JSON, HTML, CSS

Frameworks & Libraries
Angular, Vue.js, Laravel, Spring Boot, Blade, Thymeleaf, JavaFX, Bootstrap, Tailwind CSS

Mobile Development
Flutter (Dart), basic knowledge of Android with Kotlin

Databases
MongoDB, MySQL, SQL (relational databases)

UI/UX & Design
Figma, Adobe XD

Tools & Platforms
VS Code, IntelliJ IDEA, Git & GitHub, Postman, Qt Designer, Talend, LaTeX

Soft Skills
Curious, Disciplined, Serious, Realistic, Perfectionist, Prudent, Honest, Punctual, Enthusiastic, Methodical

Problem Solving & Development
Code Forces, Software Development

EDUCATION

10/2023 – Present **Applied Bachelor's Degree in Information Systems Development** Higher Institute of Technological Studies of Bizerte
Focus on software engineering, databases, web technologies, and AI fundamentals.

PROFESSIONAL EXPERIENCE

01/2025 – 02/2025 **Web Development Internship (Advanced)** PLM Resources, Bizerte
Design and development of a web certification application, PLM Academy, allowing users to obtain certificates after passing exams without taking courses.

- User and certification management system.
- Automatic certificate generation.
- Modern and intuitive interface design.

Technologies: PHP

01/2024 – 02/2024 **Web Development Internship (Introductory)** STEG, Bizerte
Introduction to web development practices and technologies in a professional environment.

ACADEMIC AND PERSONAL PROJECTS

10/2025 – 12/2025 **HealthyfiTN – Digital Healthcare Solution**
Complete digital healthcare solution with mobile and web platforms.

- Mobile app built with Kotlin and web platform with Angular.
- Online medical appointment booking system.
- Continuous health monitoring for smartwatch users.
- AI model for meal image analysis (nutritional values estimation).
- 3D avatar reflecting real-time health status.
- Intelligent chatbot powered by Gemini for health guidance and support.
- Health goal tracking with visual progress graphs.

Technologies: Angular, Spring Boot, Microservices, Scrum, Keycloak, Kotlin, Python, Flask

11/2025 – 12/2025 **Smart-Learn – AI-Powered Educational Platform**
Educational platform that revolutionizes learning by combining interactive quizzes, curated YouTube video content, and intelligent personalization.

· AI-driven assessments that automatically evaluate student levels.
· Adaptive learning paths tailored to individual strengths and weaknesses.
· Gamified progress tracking with XP points, badges, and achievement levels.

Technologies: Flutter, Spring Boot, MySQL, Gemini API
GitHub: AmineAdded/Smart-Learn

06/2025 **SITE Conference – Event Management Web Platform**
Web platform built with TypeScript and Laravel for the SITE conference event.

· Overview of previous editions and event highlights.
· Online registration and payment system.
· Email notifications and digital badge distribution.
· Certificate generation after the event.

Technologies: TypeScript, Laravel, MySQL

2025 **Mazroub – Transport Management Web Application**
Full-stack web application for managing transport services in Tunisia.

· Management of user, driver, and administrator roles.
· Booking, tracking, and trip management.
· Backend implemented with Laravel and Spring Boot for comparison.

Technologies: Laravel, Spring Boot, Vue.js, MongoDB, SQL

02/2024 – 04/2025 **BusGameSimulator – Urban Transportation Simulation System**
C-based simulation system designed to model urban public transportation in graphics mode, utilizing the SDL1.2 library.

· Simulates the operation of buses, zones, and transport lines within a city.
· Enables users to evaluate the effectiveness and value of various transport activities.
· Graphics-based interface for realistic visualization.

Technologies: C, SDL1.2
Demo Video: View Demo

VOLUNTEERING EXPERIENCE

12/2023 – Present **Active Member** **IEEE ISET Bizerte Student Branch**
Active participation in technical activities, workshops, and community events.

09/2024 – 01/2025 **Vice President** **Computer Society Chapter, ISET Bizerte**
Leadership role in organizing technical training sessions, hackathons, and student workshops.

2024 **Participant** **IEEE Xtreme 18.0**
Participated in the 18th edition of the international programming competition IEEE Xtreme, representing the IEEE ISET Bizerte Student Branch.

CERTIFICATIONS

Sept 2025 **SITE2025 Conference Challenge – Winner** **Issued by the Director of ISET Bizerte**
Won the SITE2025 web development challenge (30/05/2025 – 30/06/2025). Demonstrated exceptional skills in teamwork, web development, creativity, and project presentation.

Oct 2025 **Bus Game Simulator Project Attestation** **Issued by Head of the Information Technology Department**
Associated with ISET Bizerte.

2024 **EF SET B2 Certificate** **EF Standard English Test**
Proficiency level in English (B2).

LANGUAGES

English – B2   French – Proficient   Spanish – Elementary   Arabic – Native