



# Charifa Fax

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Full-Stack Developer — AI Explorer — Continuous Learner

## Professional Summary

Full-stack software engineer in the making with strong foundation in computer science and artificial intelligence. Passionate about building scalable, elegant solutions across front-end and back-end technologies. Experienced in designing and deploying real-world applications with focus on functionality, performance, and user experience. Driven by continuous learning and problem-solving mindset.

## Technical Skills

**Languages:** Java, JavaScript, PHP, Python, C, C++

**Frontend:** HTML5, CSS3, JavaScript, Tailwind CSS, Bootstrap

**Backend:** Spring Boot, Laravel, Flask, REST APIs, Authentication Systems

**Databases:** MySQL, PostgreSQL, SQLite, PL/SQL, MongoDB (learning)

**Tools & Platforms:** Git/GitHub, Linux, VS Code, IntelliJ, Android Studio, Postman

**Specializations:** Full-Stack Development, Database Design & Optimization, AI Integration

## Professional Experience

### Zynerator

*Software Development Intern*

**Remote**

*April–June 2025*

- Developed CONFGEN for SFE (Stage Fin d'Étude) — an AI-powered website generator for conference promotional sites using Python, Flask, and machine learning integration
- Designed intelligent templates and automation workflows to streamline website creation and customization
- Deployed and maintained multiple production websites alongside core project development
- Integrated AI features for content optimization and user experience enhancement

### EST Essaouira

*PFE (Projet Fin d'Études) – Learnify Platform*

*2025*

- Architected and deployed comprehensive e-learning platform for computer science students using Spring Boot, PostgreSQL, and Tailwind CSS
- Implemented diverse learning methods including video courses, documentation resources, interactive quizzes, and AI-trained chatbot for personalized learning support
- Designed intelligent learning paths with adaptive content delivery based on user progress

### Technical Department

**ATLAS Hotel Administration**

*Observation Internship*

*2024*

- Observed and learned professional software development workflows, project management, and collaborative practices in a production environment
- Studied company architecture and development methodologies through hands-on observation
- Applied learning to develop Promanag platform — a Laravel-based task management system with secure authentication and email notifications
- Self-directed learning of Laravel framework combined with professional insights from internship experience

## Key Projects

**Learnify (E-Learning Platform)**: Comprehensive e-learning platform built with Spring Boot, PostgreSQL, and Tailwind CSS. Features include course management, interactive modules, user authentication, and responsive design.

**CONFGEN (Conference Website Generator)**: Python and Flask-based SFE project featuring a chatbot that generates conference promotional websites. Integrated with AI for content optimization and automated website customization.

**Promanag (Laravel Web App)**: Full-featured task management system with break scheduling, role-based access control, secure authentication, and email notifications. Demonstrates proficiency in Laravel framework and database relationships.

**Event Management System (Java)**: Desktop application using JavaFX with QR code-based login, reservation chat functionality, and comprehensive admin panel for event management.

**Portfolio Website**: Personal portfolio showcasing projects and skills. Built with HTML, CSS, JavaScript, Tailwind CSS. Features dark mode, responsive design, and smooth animations.

**Game Development Projects**: Pac-Man and Flappy Bird implementations in Java focusing on game mechanics, collision detection, and object-oriented design patterns.

## Education

<b>École Nationale Supérieure d'Appliquée (ENSA) Safi</b> <i>Engineering Student in Computer Science &amp; AI</i> Third-year student specializing in algorithms, system design, AI fundamentals, and full-stack development. Engaging in academic and personal projects to strengthen engineering foundation.	<b>Morocco</b> Present
<b>École Supérieure de Technologie Essaouira</b> <i>DUT in Génie Informatique, Mention Très Bien</i> Two-year diploma providing foundation in programming, databases, web development, and computer architecture.	<b>Morocco</b> 2023–2025
<b>École Mohammed 5 Essaouira</b> <i>Baccalauréat in Sciences Physiques</i> Completed secondary education with focus on mathematics and physics.	<b>Morocco</b> 2020–2023

## Additional Skills

**Soft Skills**: Problem-Solving, Team Collaboration, Creative Thinking, Continuous Learning, Analytical Mindset

**Languages**: Arabic (Native), French , English

**Interests**: AI Exploration, Game Development, System Design, Open-Source Contribution, Technology Innovation