

Adem Fennani

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TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, C++, C, C#, PHP, Bash/Shell

Frameworks & Libraries: React, Next.js, Angular, Spring Boot, Node.js, Express.js, FastAPI, .NET, Symfony, JavaFX, Qt

Databases: MySQL, PostgreSQL, MongoDB, SQLite, Oracle, Supabase

DevOps & Cloud: Docker, Kubernetes, Helm, Ansible, Terraform OpenStack, GitHub Actions, CI/CD, Prometheus, Grafana, Nginx, Git, Linux

AI & ML: scikit-learn, Random Forest, XGBoost, KNN, K-Means, Prophet, LLM Integration, AI Agents

Soft Skills: Leadership, Communication, Problem-Solving, Team Collaboration

EDUCATION

ESPRIT – École Supérieure Privée d'Ingénierie et de Technologies

Ariana, Tunisia

Engineering Degree in Computer Science

Sep. 2022 – 2027 (expected)

EXPERIENCE

AI Development Intern

July 2025 – August 2025

Otosperx Solutions

Djerba, Tunisia

- Designed and developed an AI Agent system to detect and process online orders on an e-commerce platform, integrating Facebook Messenger and WooCommerce synchronization
- Built a browser extension for automated order detection and customer interaction logic to automatically adjust orders based on real-time inputs

IT Intern

Summer 2024

Mayaseen Travel

Tunisia

- Managed bookings, developed and maintained internal tools, booking systems, and IT infrastructure for the agency

Technical Support Intern

August 2023

Tunisie Telecom

Djerba, Tunisia

- Provided technical support to resolve connectivity issues and gained hands-on experience with network diagnostics and telecom infrastructure

PROJECTS

GRINTA – Private Cloud Infrastructure | *OpenStack, Ansible, Kubernetes, Docker, Grafana* Nov. 2025 – May 2026

- Deployed core OpenStack services (Keystone, Neutron, Glance, Heat, Cinder) to build a full IaaS/PaaS/SaaS cloud environment
- Automated provisioning with Ansible, Terraform, and Heat; set up Kubernetes orchestration with Helm, Prometheus, and Grafana monitoring; integrated Prophet-based ML models for resource usage forecasting

GRINTA – Fitness Web Application | *Angular, Spring Boot, Machine Learning, Microservices* March 2026 – May 2026

- Built a full-stack fitness platform (AI-powered workout programs, real-time pose coaching, nutrition tracking, gym management, booking) with Spring Boot REST APIs and an Angular frontend with role-based access control
- Integrated ML microservices for smart recommendations; containerized with Docker and deployed on the private cloud infrastructure above

Stratus – Student Analytics Platform | *Next.js, FastAPI, Machine Learning*

Sep. 2025 – Dec. 2025

- Built an analytics platform using Random Forest, KNN, K-Means, and XGBoost to predict student performance, assess dropout risk, and generate personalized recommendations
- Deployed a full-stack Next.js and FastAPI application with interactive student and admin dashboards; live at stratus-ml.vercel.app

Evencia | *Java, JavaFX, Symfony, Desktop + Web Application*

Jan. 2025 – May 2025

- Developed a dual-platform event management system with a Java/JavaFX desktop client integrated with a Symfony web interface, supporting event creation, registration workflows, and participant management
- Implemented shared REST API communication between the desktop and web layers, enabling real-time data synchronization and a unified user experience across both platforms

VOLUNTEERING

IEEE ESPRIT Student Branch

Ariana, Tunisia

Various Roles

2022 – Present

- HR Manager – Leading member integration and development initiatives across the Student Branch
- SDC 4.0 Secretary | RAS Robots 4.0 Communication Manager | IASTAM 5.0 Ambassadors Coordinator
- 1st Place** – InnoSpeed 3.0 Robotics & IoT Hackathon

LANGUAGES

Arabic: Native

French: Fluent

English: Professional Working Proficiency

Spanish: Intermediate