

# Ahmed Amine Soualhi

Software Architecture Engineering Student



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## PROJECTS

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- **SOFIMA – Industrial Maintenance Management System (Full Stack Developer)**

Developed and deployed a comprehensive maintenance management system for industrial operations with role-based access control and workflow automation. Successfully deployed to production on OVH VPS with complete infrastructure management.

- Backend: Spring Boot, Spring Security, JPA/Hibernate, JWT Authentication
- Frontend: Angular, TypeScript, SCSS, Responsive Design
- Security: Role-based authorization (ADMIN, MOULISTE, REGLEUR), JWT tokens
- Infrastructure: OVH VPS deployment, SSH server management, Docker containerization
- DevOps: Production deployment, Environment configuration, Domain management
- API: RESTful services with proper HTTP status codes and error handling
- Keywords: Cloud Deployment, VPS Management, SSH, Industrial IoT, Enterprise Security

- **BIAT – Legal Chatbot for Banking Sector (Solo Project)**

Developed a legal chatbot for BIAT bank using Machine Learning and Deep Learning. The project included data collection, cleaning, model building (NLP/Deep Learning), web application deployment, and production rollout. Enhanced customer support by automating legal inquiries.

- Technologies: Python, Web Scraping, NLP, Deep Learning, Cloud
- Keywords: Chatbot, NLP, AI, Automation

- **Maghreb Assurance – Smart Insurance Management Platform (Team Lead)**

Led a team to build a modular, AI-powered insurance platform for Maghreb Assurance. Features included contract and claims management, fraud detection, payment prediction, and customer feedback analysis.

- Backend: Spring Boot, Spring Cloud; Frontend: Angular
- Infrastructure: Docker, Eureka, API Gateway; Security: Keycloak
- DevOps: GitHub Actions, Docker Hub; API: Swagger
- AI/ML: Fraud detection, Payment prediction, Feedback classification

- **Project X – Micro Bank Credit Platform (Full Stack Developer)**

Contributed to the design and redevelopment of a mobile-first micro-banking platform offering credit, loan tracking, and user onboarding services. The platform was initially developed with Scala and Flutter, then fully rebuilt using .NET technologies for improved scalability and maintainability.

- Backend: Scala (initial version), ASP.NET Core (final version), Entity Framework

- Frontend: Flutter (mobile app); Admin Dashboard: MIUI-based ASP.NET Razor Pages
- Architecture: REST APIs, modular service design
- DevOps: Docker, GitHub CI/CD
- Security: JWT Authentication, Role-based access control
- API: Documented with Swagger for developer collaboration
- Keywords: Microfinance, Credit Tracking, Scalable Architecture, Mobile Banking

- **Tourist in Tunisia**

SDL game in C, teamwork, dynamic allocation, pointer management, resource optimization, custom Arduino controller.

- **On-Air**

Radio station management app (C++), features: SMTP, SMS, dynamic statistics, database integration.

- **Doorstep**

E-commerce platform (JavaFX, Symfony) with delivery services, AI assistant for admin and clients.

## PROFILE

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Software architecture engineering student specializing in distributed systems and microservices, with practical experience deploying scalable cloud solutions (AWS, GCP) and building CI/CD pipelines. Skilled at designing modular, resilient architectures, RESTful APIs, and deploying containerized applications using Docker and Kubernetes. I have led and contributed to projects and internships covering system design, development and production rollout. Seeking a role in software architecture to design and industrialize scalable, secure software systems.

## SKILLS

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- Project Management, Teamwork, Leadership, Time Management
- Effective Communication, Public Relations, Critical Thinking
- Programming Languages: C , C++ , Java , PHP , JavaScript , typescript
- Languages: Arabic (Native), French (Fluent), English (Fluent), German (Intermediate)

## EDUCATION

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- **ESPRIT: Ecole Sup Privée d'Ingénierie et de Technologies**  
Prépas intégré / cycle ingénieur
- **Baccalauréat Math-Tech**

## WORK EXPERIENCE

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- **Full Stack Developer (Freelance)**  
Web development using Java, PHP, JavaScript.
- **Stage formation humain et sociable, Devolution**
- **Stage d'immersion en entreprise, BIAT**
- **Stage d'ingenieur , Sofima Filters**

## CERTIFICATIONS

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- **DevOps Essentials** — Google (Aug 2025). Cred ID: 17814957
- **Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate** — Oracle (Aug 2025)
- **Google Cloud Computing Foundations** — Google (Jul 2025). Cred ID: 16925018
- **Implement CI/CD Pipelines on Google Cloud (Skill Badge)** — Google (Jul 2025)
- **Introduction to Containers, Kubernetes, and OpenShift** — Cognitive Class (Jun 2025). Cred ID: 6c2fe38db72c4e298e95b8d8492bbaa2
- **Machine Learning with Python** — Cognitive Class (Jun 2025). Cred ID: 65e36c83799b4ce28f429c44e1134744
- **Evaluation & Light Customization of Large Language Models** — NVIDIA (Jan 2025). Cred ID: M9kdR7yQQ5WiuvosdW\_R4g
- **AWS Academy Graduate - Cloud Foundations** — Amazon Web Services (Novembre 2024)
- **Hashgraph Developer Course — Certificate of Completion** — The Hashgraph Association (17 Octobre 2025)

## INTERESTS

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Emerging technologies, AI, Cloud Computing, DevOps, Video Games, Technical Reading