

# Ahmed Amine Soualhi

*Software Architecture Engineering Student*

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## PROFILE

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Student in Software Architecture Engineering with solid training in system design, microservices, and cloud computing. Demonstrated ability to develop and implement scalable solutions through academic projects, internships, and freelance experiences. Seeking to leverage my skills in a challenging role in software architecture.

## 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

## 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.

## 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