

JIHEN MESSAOUD

AI-Driven Solutions & Cloud Innovation | Software Engineering Master's Graduate

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Professional Summary

Results-driven Full-Stack Developer with expertise in AI-powered solutions and cloud architecture. Proven track record in designing scalable microservices, implementing CI/CD pipelines, and delivering enterprise-grade applications. Strong foundation in Agile methodologies, DevOps practices, and modern web technologies. Passionate about innovation, excellence, and collaborative problem-solving.

Professional Experience

Full-Stack AI Developer Intern

AiLine Tunis (Remote)

Jan – Aug 2025

- Developed **AiLine Pro**, an AI platform aligning organizational values using NLP analysis and ML recommendations
- Architected microservices solution with Domain-Driven Design and cloud-native Azure infrastructure
- Built interactive dashboards enabling C-level executives to monitor real-time engagement metrics
- Implemented Elasticsearch monitoring system and established CI/CD pipelines with Azure DevOps
- Led Agile/Scrum development across 2 releases and 5 sprints
- Stack:** Angular, Spring Boot, PostgreSQL, Azure, NLP, ML, Elasticsearch, Docker, CI/CD

Web Developer Intern

Enterprise eSolutions Monastir (On-site)

Feb – Jul 2023

- Built intelligent Laravel CRUD generator with admin dashboard, reducing database setup time by 60%
- Automated code generation for 8-developer team, eliminating repetitive tasks
- Delivered comprehensive technical documentation for seamless knowledge transfer
- Stack:** Laravel, PHP, MySQL, Bootstrap, AJAX, Git

Full Stack Developer Intern

Compagnie des Phosphates de Gafsa (CPG) Gafsa (On-site)

Jun – Sep 2022

- Engineered enterprise employee management system with improved transaction tracking
- Streamlined purchasing workflows, saving 15+ staff hours monthly
- Developed RESTful APIs and responsive UI with Angular and Spring Boot
- Stack:** Angular, Spring Boot, MySQL, RESTful APIs, Karma, TypeScript

General Secretary

Microsoft Tech Club - ISIM Monastir Monastir

Oct 2021 – May 2022

- Coordinated multiple technical events, boosting student engagement by 40%
- Streamlined administrative operations and meeting documentation processes

Education

Professional Master's Degree in Software Engineering

Higher Institute of Informatics and Mathematics of Monastir (ISIMM)

Sep 2023 – Oct 2025

- Thesis:** "Development of AI-Powered Solution for Organizational Culture Alignment" (Defended Oct 2025)

Bachelor's Degree in Software Engineering

Higher Institute of Informatics and Mathematics of Monastir (ISIMM)

Sep 2020 – Jul 2023

- Strong foundation in algorithms, data structures, software architecture, and database management

Erasmus+ Summer School in Information Technology

Universidad de Alcalá (UAH), Spain

Jul 2022

- Focused on cybersecurity, big data, and data integration (PySpark, Docker, Quarkus, Tableau)

Key Projects

AiLine Pro – AI-Powered Culture Platform

github.com/jihen22/AilinePlateform

- Microservices platform using NLP and ML for organizational value alignment with real-time dashboards
- Tech:** Angular, TypeScript, Spring Boot, PostgreSQL, Azure, NLP, ML, Docker, Elasticsearch

Automated Monetary Management DevOps Pipeline

github.com/jihen22/Automated-MonetaryManagement-DevOps-Pipeline

Pipeline

- Full CI/CD pipeline with automated testing at every development stage for enterprise application
- Tech:** Java, DevOps, CI/CD, Jenkins, Automated Testing

Advanced CRUD Generator with Laravel

github.com/jihen22/CRUDGenerator

- Intelligent code generator creating CRUD operations and admin interfaces from database schema
- Tech:** Laravel, PHP, MySQL, Bootstrap, JavaScript, SCSS, Blade, Git

Employee Manager Application (Full Stack)

github.com/jihen22/employeemanagerFront | [employeemanager-Backend](https://github.com/jihen22/employeemanagerBackend)

- Full-stack system with Angular frontend, Spring Boot backend, and comprehensive testing suite

- **Tech:** Angular, TypeScript, Spring Boot, MySQL, Karma, RESTful APIs

Technical Skills

Languages

PHP, Java, JavaScript (ES6+), TypeScript, Python, C++, SQL, HTML5/CSS3

Frontend Development

Angular, React, Bootstrap, jQuery, Responsive Design

Backend Development

Laravel, Spring Boot, Node.js, Express, RESTful APIs, Microservices, MVC

Databases

MySQL, MongoDB, PostgreSQL, Elasticsearch, Data Modeling

DevOps & Cloud

Docker, Kubernetes, Git, GitHub/GitLab, CI/CD, Jenkins, Azure, Azure DevOps

AI & Data Science

NLP, Machine Learning, TensorFlow, PySpark, Tableau

Monitoring

Elasticsearch, Prometheus, Grafana

Methodologies

Agile/Scrum, DDD, Event Storming, OOP, TDD, Design Patterns

Certifications

Certified AI Solutions Developer

OpenAI Academy / Jan 2025

Professional Cloud Architect

CloudSkills Institute / Mar 2025

AWS Academy Graduate - Cloud Foundations

Amazon Web Services / Nov 2024

AWS Cloud Practitioner (CLF-C02)

KodeKloud / Sep 2024

Scrum Fundamentals Certified (SFC)

SCRUMstudy / Sep 2024

Docker & Kubernetes Engineer

KodeKloud / Sep 2024

Career Essentials in Generative AI

Microsoft & LinkedIn / Sep 2024

Azure AI Fundamentals (AI-900)

Microsoft / Aug 2024

Full-Stack Web Development Certificate

Coursera / University of Michigan / Jul 2024

Languages

Arabic: Native | **English:** Bilingual | **French:** Bilingual | **German:** Elementary | **Spanish:** Limited Working