




# 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

Jan – Aug 2025

AiLine Tunisia (Remote)

- 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

Feb – Jul 2023

Enterprise eSolutions Monastir (On-site)

- 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

Jun – Sep 2022

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

- 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

Oct 2021 – May 2022

Microsoft Tech Club - ISIM Monastir Monastir

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

## Education

### Professional Master's Degree in Software Engineering

Sep 2023 – Oct 2025

Higher Institute of Informatics and Mathematics of Monastir (ISIMM)

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

### Bachelor's Degree in Software Engineering

Sep 2020 – Jul 2023

Higher Institute of Informatics and Mathematics of Monastir (ISIMM)

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

### Erasmus+ Summer School in Information Technology

Jul 2022

Universidad de Alcalá (UAH), Spain

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

## Key Projects

### AiLine Pro – AI-Powered Culture Platform

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

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

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

## Technical Skills

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### 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

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**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

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