Mohamed Amine MACHERKI

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EXPERIENCE

Software Engineer, Sofrecom (Orange France subsidary) – Tunis, TN   Sep 2023 - PRESENT

- **DISCO:** is a digital and innovative openSource platform for core commerce that enters into important projects of common european interest.
- Worked with a team of more than 50 people from 4 countries on a high-performing microservices project.
- Optimized API response time from 3.6s to 0.5s, improving system efficiency by ~86%.
- Integrated Kafka and S3 into the project, implementing event-based reporting.
- Spearheaded the MVP development for the microfrontend part before its full implementation.
- Actively contributed to bug fixing, code reviews, and documentation for onboarding new team members.
   Key Achievements: ODA TMF Award winner at DTW23 **–** Reduced carbon footprint via eco-friendly tech solutions.
   Tech Stack: Spring Boot, React, Microfrontends, Microservices, Keycloak, Kafka, S3, Junit, Mockito, TDD, openshift.

R&D Engineer Intern (6 months), Sofrecom (Orange Innovation) – Tunis, TN   Feb 2023 – Aug 2023

- **SOFLEARN:** is a VR-based medical learning platform using AI and blockchain to create immersive training simulations.
- Co-developed with a medical university, reducing training costs by ~30%.
- Integrated Rental NFTs & smart contracts for 10+ simulated medical scenarios.
- Designed and implemented an AI-powered virtual tutor using NLP and ML, enabling real-time Q&A.
   Key Achievements: Presented the solution at Orange Innovation Day 2024
   Tech Stack: Virtual Reality, Blockchain, AI, Machine Learning, NLP, Smart Contracts, NFT, Unity, Oculus Quest 2

Web Developer Intern (2 months), Talan – Tunis, TN   Jun 2022 - July 2022
Ai Developer Intern (2months), Consultim-it – Sousse, TN   Aug 2022 - Sep 2022

EDUCATION

National School of Electronics and Telecommunications of Sfax   Jun 2023
Master's Degree in Computer Engineering and Telecommunications   Sfax, TN

National School of Electronics and Telecommunications of Sfax   Jun 2020
Undergraduate Degree in Pre-Engineering (Mathematics and Physics)   Monastir, TN

CERTIFICATIONS, SKILLS & INTERESTS

Programming: Java 8+, Spring Boot, ReactJs, REST APIs, Python, TypeScript, JavaScript, Bootstrap.
Technologies: AWS, Azure, Kubernetes, Docker, CI/CD (Jenkins, Maven), Kafka, Elasticsearch, Keycloak, MongoDB.
Platforms & Tools: Linux, Jira, Confluence, GitLab, GitHub, Artifactory, openshift.
AI & Web3: Supervised & Unsupervised ML, MCP ,A2A , Computer Vision, NLP, Metamask ,Unity , Blender ,Oculus quest 2

Languages:

   ⋆ English (advanced)   ⋆ French (advanced)   ⋆ German (intermediate)

Certifications:

- **Oracle Certified Professional (OCA) – Java SE 8**– Score: 87%.
- **Professional Scrum Master™ I (PSM I)**– Score: 85%.
- **Eco-design Training Certificate** – Certified in sustainable and energy-efficient software development practices.
- **PMI ACP Training Certificate** – Gained expertise in Agile principles, team collaboration, adaptive planning, and value-driven delivery.

Interests: Visual arts enthusiast – Painter – Marathon runner