oussema jerfel

Software Engineer

◉ Tunis , Tunisia

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Profiles

 oussemajerfel12

 Oussema Jerfel

Education

Sep 2018 - Jun 2023

ESPRIT – Private Higher School of Engineering and Technology
National Engineering Degree in Computer Science (equivalent to a Master's degree)

Work Experience

Feb 2025 - Present

CMCC – Centro Euro-Mediterraneo sui Cambiamenti Climatici
Software Engineer
Remote, Italy

- Developed robust STAC metadata catalogs for CMIP6 datasets using pgSTAC, resolving data access bottlenecks identified as the top cause of delays in climate research projects.
- Automated ingestion of over **10 TB** of Zarr-format CMIP6 climate data into a PostgreSQL-backed STAC API, cutting manual processing time by **80%**.

Jul 2024 – Dec 2024

Zembra
Software Engineer
Remote, San Diego

- Engineered RESTful APIs and scalable microservices using PHP and Node.js, decreasing deployment times by 30% and improving system modularity, leading to faster feature releases.
- Established standardized Docker and WSL-based development environments, reducing setup issues and debugging time by **60%**.
- Coordinated with cross-functional teams to identify and resolve production issues, achieving **99.9% uptime** across critical services.

Jul2023 - Jun 2024

Archimed
Professional Services Engineer
Tunis, Tunisia

- Deployed digital workplace and document management solutions across **10+ enterprise clients**, improving information retrieval time by **up to 40%**.
- Engineered automated data retrieval workflows ("Data Flow"), reducing data preparation time by **70%**.
- Developed cross-platform mobile applications using Flutter, reaching over **1,000+ active users** and reducing platform maintenance effort by **30%**.
- Customized and deployed Syracuse modules for **5+ major client infrastructures**, cutting onboarding time by **2 weeks per project**.

Projects

CMAM – Musika (Production), Tunisia

- Installed and customized **Syracuse** to meet specific operational and user interface needs, enabling smooth system adoption.
- Delivered a Flutter-based music streaming app with **>95% crash-free sessions**, supporting **500+ songs** and **real-time playback**, now live in production.
- Integrated backend systems with real-time content delivery and analytics, enabling **live usage tracking** and increasing user engagement by **35%** within 3 months.

Skills

Languages
Python • R • PHP • C/C++ • HTML/CSS • Java • JavaScript • SQL • C# • PLSQL • Dart • XSLT

Frameworks
Qt • Symfony • Spring Boot • .NET • Angular • Xamarin • FastAPI

Business Intelligence
SQL Server (SSIS, SSAS, SSRS) • Talend • Power BI • Microsoft Fabric

Databases
Oracle • MySQL • PostgreSQL • SQL Server

Big Data
Apache Hadoop • Spark • Kafka • Cassandra

DevOps & Cloud
Docker • Kubernetes • Git

Languages

French   **English**   **Arabic**

Certificates

Front-end JavaScript Development (Framework: Angular)

Web Technologies and Django

Becoming a Trainer at GoMyCode