

Oussema Jaouadi

Software Engineer

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Summary

Software Engineer with hands-on experience designing distributed backend architectures, high-throughput RESTful APIs, and cloud-native AI integrations. Proven track record in building event-driven systems, streamlining multi-cloud deployment automation, and delivering full-stack web applications under Agile methodologies.

Experience

Uptale

Software Engineer

Feb 2026 – Present
On-site

- Engineered generative AI workflows using Skybox AI and .NET RESTful APIs, allowing creators to generate 360° virtual environments from natural language prompts.
- Designed an image preprocessing service for background removal, eliminating multi-step manual editing workflows for authoring teams.
- Integrated Azure AI Vision models to generate alt-text and extract metadata programmatically, ensuring platform-wide WCAG accessibility compliance and standardized asset indexing.
- Spearheaded migration of customer-facing notifications to modular React Email components, eliminating legacy template debt and enabling cross-functional teams to iterate without backend releases.

Calgra Group

Site Reliability Engineer

Dec 2024 – Jan 2026
Remote, UK

- Orchestrated resilient multi-cloud backend infrastructure across 2 cloud providers (AWS and Azure) using Docker Swarm and Dokploy, enforcing hardened VM security and role-based access.
- Streamlined cross-platform CI/CD deployment pipelines via GitHub Actions, coordinating simultaneous mobile releases across 2 platforms (Apple App Store and Google Play).
- Constructed backend services, ETL pipelines, and event-driven architectures with RabbitMQ to handle asynchronous workloads reliably.
- Configured self-hosted Harbor registry with continuous Trivy vulnerability scanning into CI/CD pipelines to enforce container security standards.

Piterion Group

DevOps Intern

Feb 2024 – Aug 2024
Tunisia

- Standardized Joomla and Camunda deployments using Ansible, reducing configuration errors across environments.
- Evaluated container clustering and migration strategies between Docker Swarm and Kubernetes based on scalability constraints.

Trustable

Cybersecurity Intern

Jul 2023 – Sep 2023
Tunisia

- Optimized container resource utilization and built OpenCTI connectors for real-time threat intelligence ingestion.
- Implemented continuous collection pipelines for vulnerability, malware, and threat intelligence data sources.

Education

National Institute of Applied Science and Technologies (INSAT)

Masters of Engineering in Computer Networks & Telecommunications

Sep 2019 – Jun 2025
Tunis, Tunisia

Projects

Vue-API

2026

Keywords: Go, Nuxt 4, Docker, RESTful APIs, Open Source

- Built an open-source API exploration and debugging client for crafting, inspecting, and validating HTTP/REST requests.
- Developed a high-performance Go backend coupled with a Nuxt 4 frontend for real-time payload analysis and header inspection.
- Containerized the application with Docker to enable reproducible local environments and streamlined self-hosting.

Redistra

2026

Keywords: Redis, TypeScript, RBAC, JWT, Audit Logging, Self-Hosted, Open Source

- Created a self-hosted Redis management dashboard providing real-time key inspection, memory telemetry, and web CLI access.
- Implemented granular Role-Based Access Control (RBAC), JWT authentication, and structured audit logs for administrative security.
- Structured multi-instance connection pooling to monitor and manage independent Redis clusters from a single interface.

Technical Skills

- Languages & Frameworks:** C# (.NET), TypeScript, React, Next.js, Go, Python, Node.js
- Backend & Architecture:** RESTful APIs, Microservices, System Design, Distributed Systems, Event-Driven
- Data & Messaging:** PostgreSQL, MySQL, MongoDB, Redis, RabbitMQ, Elasticsearch, Object Storage
- Cloud & DevOps:** Docker, Kubernetes, AWS, Azure, CI/CD, GitHub Actions, Terraform, Linux, Prometheus
- Practices & Security:** Agile/Scrum, Test Automation, Git, OWASP, RBAC, Threat Intelligence
- Languages:** Arabic (Native), English (Professional), French (Professional)