Mohamed Amine Khemiri

Software Engineer | Full-Stack Development & DevOps

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Profile

Software Engineer specializing in scalable applications, automation, and cloud-based solutions. Experienced in secure software delivery, system integration, and operational optimization. Passionate about solving complex challenges and delivering reliable, business-driven solutions.

Experience

DevSecOps Intern - Sofiatech *Ariana, Tunisia*

Tools : *Jenkins, SonarQube, Trivy, Docker, Kubernetes, ArgoCD, Grafana, Prometheus, Falco, Loki, Vault* *Feb – July 2025*

- Redesigned the security and deployment process of an internal app, achieving ISO 27001 compliance, with secure CI/CD pipelines integrating static analysis and vulnerability scanning.
- Deployed monitoring and observability across 10+ services via Prometheus, Grafana and Loki, reducing incident detection time.
- Centralized 30+ secrets in HashiCorp Vault and deployed Falco for real-time threat detection.

Web Development Intern - Smart IT Partner *Ariana, Tunisia*

Tools : *Angular, Spring Boot, AKS, WebSockets, Jenkins, Docker, Kubernetes* *July – Aug 2024*

- Developed an intern management platform with Angular and Spring Boot, with real-time features via WebSockets, replacing manual tracking.
- Set up CI/CD pipelines with Jenkins and deployed on AKS (Azure Kubernetes Service).

Java Development Intern - Smart IT Partner *Ariana, Tunisia*

Tools : *Java, JavaFX* *July – Aug 2023*

- Built a Java/JavaFX desktop app for intern management, reducing manual tracking and admin work.

Internet of Things Intern - INNOVUP *Ariana, Tunisia*

Tools : *Angular, Python, TensorFlow, Raspberry Pi* *Feb – July 2022*

- Deployed a Python/TensorFlow computer vision pipeline on Raspberry Pi, achieving 95% facial recognition and 98% mask-detection accuracy.
- Developed an Angular/Firebase app for real-time dashboards, attendance tracking, and alerts.

Projects

Production Intervention Management System - Freelance

Tools : *React, TypeScript, Spring Boot, MySQL, Azure VM, Nginx, SSE, FastAPI, Asterisk*

- Designed and deployed a platform for an automotive wiring harness factory, automating intervention workflows through real-time, email, and automated phone call alerts to accelerate issue resolution.

AI Legal Intake Assistant - Freelance

Tools : *Python, Asterisk, Twilio Elastic SIP Trunking, Speech-to-Text, LLM, Azure, Terraform*

- Designed and developed an AI-powered legal intake assistant that captures and transcribes Tunisian Arabic (Derja) calls, extracts structured case information using LLMs, and delivers automated Arabic case summaries, streamlining lawyers' case intake and workflow.

Automating E-Commerce App Deployment (Microservices) on Local Kubernetes Cluster - Personal

Tools : *Vagrant, Ansible, Jenkins, ArgoCD, Prometheus, Grafana, Kubernetes*

- Set up an automated multi-node Kubernetes cluster with Vagrant/Ansible and CI/CD + GitOps via Jenkins/ArgoCD, improving deployment reliability by 80%.

Education

Engineering Degree in Software Engineering SESAME University, Ariana *(2022 – 2025)*

Bachelor's in Embedded Systems and Internet of Things Faculty of Sciences, Bizerte *(2019 – 2022)*

Skills

DevOps & Cloud: Docker, Kubernetes, Jenkins, Ansible, ArgoCD, Terraform, Nexus Repository, Azure
Security & Monitoring: Vault, Keycloak, SonarQube, Trivy, Falco, Kyverno, Prometheus, Grafana, Loki, ISO 27001
Languages & Frameworks: Java, Python, C, Bash, TS, JS, C#, Angular, React, Spring Boot, .NET, Flask, FastAPI, Node.js
Databases: MySQL, PostgreSQL, MongoDB, SQL Server, Oracle
Networks & Systems: Linux, RHEL10, Windows, TCP/IP, DNS, WebSocket, RabbitMQ, Asterisk

Languages

Arabic (Native), **English** (B2), **French** (B2)