

Omar Chouchane

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Summary

DevOps and Cloud Engineer with hands-on experience designing CI/CD pipelines, implementing DevSecOps practices, and automating software delivery workflows. Strong background in software engineering with focus on containerization, system reliability, and secure deployment architectures.

Education

INSAT — Engineering Degree in Networks and Telecommunications Expected: 2027
Lycée Bourguiba Monastir — Baccalauréat (Computer Science) 2022

Experience

Software Engineer (Part-Time), CarbonJar Sep 2025 – Nov 2025

- Designed and implemented CI/CD pipelines using **GitHub Actions**, automating build, test, and deployment workflows.
- Reduced deployment time by **40%** and improved release reliability through pipeline optimization and automation.
- Implemented structured logging and debugging practices, reducing production incidents by **30%**.

Fullstack Web Developer Intern, CarbonJar Jul 2025 – Aug 2025

- Developed secure backend APIs using **Node.js, TypeScript**, serving **100+ users**.
- Implemented authentication and authorization systems, improving system security and access control.
- Optimized database queries and API performance, reducing latency by **25%**.

Projects

Highly Available 3-Tier Cloud Architecture (AWS)

- Designed and deployed a **3-tier architecture** (Node.js, Go, PostgreSQL) on AWS.
- Provisioned infrastructure using **Terraform** including **VPC, multi-AZ subnets, ALBs, Auto Scaling Groups, RDS**.
- Implemented **high availability and fault tolerance** with load balancing and auto-scaling (2–6 instances).
- Secured architecture using **private subnets, bastion host, and Secrets Manager**.
- Integrated **CloudWatch** for logging and monitoring.

DevSecOps CI/CD Pipeline & Secure Delivery System

- Built end-to-end **CI/CD pipelines** using GitHub Actions with automated build, test, and deployment stages.
- Integrated **CodeQL (SAST)** and **Trivy** for container and dependency vulnerability scanning.
- Implemented **OIDC authentication** for secure cloud access, eliminating static credentials.
- Containerized applications using **Docker** and automated image build workflows.
- Designed reusable pipeline workflows, reducing deployment effort by **80%**.

Skills

Programming: Python, JavaScript, TypeScript, Bash, SQL

DevOps: CI/CD, GitHub Actions, DevSecOps, Pipeline Automation, Workflow Orchestration

Containers: Docker, Containerization, Image Building, Image Scanning

Cloud & Infra: Infrastructure as Code, Terraform, AWS, Azure, Secure Deployment, Environment Management

Security: CodeQL, Trivy, SAST, Dependency Scanning, Vulnerability Management

Systems: Linux, Networking Fundamentals, Debugging, Performance Optimization

Tools: Git, GitHub, Bash Scripting

Concepts: Microservices, Distributed Systems, Logging, Monitoring Basics, Scalability, Reliability

Soft Skills

Problem Solving, Communication, Leadership, Adaptability