Mahdi Ben Mansour

Cloud & DevOps Engineer

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Professional Summary

Cloud & DevOps Engineer passionate about building secure, scalable, and cost-efficient cloud infrastructures on AWS. Experienced in automating CI/CD pipelines, monitoring infrastructure performance, and collaborating with cross-functional teams to deliver production-grade software. Strong background in software development, infrastructure as code, and system reliability engineering. Keen to leverage a blend of DevOps and full-stack development expertise to deliver resilient, efficient, and maintainable systems.

Experience

May 2024 – Present — **Cloud Systems Engineer**, *Infor*

Tech: AWS, CloudFormation, Python, C#, Jenkins, Linux, GitLab CI/CD, Terraform, Ansible

- Designed, implemented, and maintained cloud infrastructure using AWS CloudFormation and Terraform, enabling consistent, automated deployments across environments.
- Reduced infrastructure costs by **30%** by optimizing EC2 instance utilization, leveraging AWS Savings Plans, and implementing auto-scaling policies.
- Automated end-to-end deployment processes using Jenkins pipelines and GitLab CI/CD, reducing deployment time from 45 minutes to under 10 minutes.
- Designed a monitoring and alerting system using CloudWatch, Grafana, and Prometheus to proactively identify performance bottlenecks.
- Collaborated with development teams to containerize legacy applications using Docker and orchestrated them with Kubernetes, improving reliability and scalability.
- Contributed to on-call rotation to ensure 24/7 service uptime and provided rapid incident response using Jira Service Management.
- Conducted internal DevOps workshops to promote best practices in infrastructure automation and continuous delivery.

Aug 2023 – Apr 2024 — **Full-Stack Engineer**, *Infor*

Tech: C#, ASP.NET Core, React, SQL Server, Jenkins, GitLab, REST APIs

- Developed and maintained enterprise-grade REST APIs and microservices in ASP.NET Core serving 10+ business-critical applications.
- Designed, implemented, and optimized SQL queries and stored procedures, reducing average query execution time by **50%**.
- Built reusable and modular front-end components using React, Redux, and TypeScript, improving maintainability and development speed.
- Improved application responsiveness and load performance by **25%** through optimized API calls and front-end caching strategies.
- Acted as the CI/CD focal point for the team: integrated automated unit and integration tests within Jenkins pipelines.
- Collaborated with QA teams to implement automated end-to-end tests, improving defect detection during early development phases.
- Provided mentorship to interns and new hires, helping them onboard with the tech stack and agile workflow.

Mar 2023 – Jul 2023	**Full-Stack Engineer Intern**, *Infor*
	Tech: C#, React, Docker, Kubernetes, Entity Framework, Git

- Assisted in containerizing internal web applications using Docker and Kubernetes, enabling seamless deployment between dev and prod environments.
- Built dynamic UI components with React and Material UI while ensuring cross-browser and mobile responsiveness.
- Implemented backend logic using C# and Entity Framework for automated report generation and data processing.
- Developed RESTful APIs and handled secure authentication via JWT tokens and OAuth2.
- Collaborated with senior engineers in Agile sprints, participating in code reviews and sprint retrospectives.
- Created technical documentation for microservices, API endpoints, and deployment scripts.

Apr 2022 – Jun 2022	**Developer Intern**, *Hippo Shopping*
	Tech: Python, Scrapy, Kafka, C#, HTML, CSS, Git, Jira

- Designed and deployed data scraping pipelines to aggregate product information from over 500 e-commerce websites.
- Implemented Kafka producers and consumers for scalable real-time data ingestion and processing.
- Wrote complex regular expressions for data parsing and transformation to ensure high data quality.
- Developed backend services in C# for data persistence and integration with the internal analytics platform.
- Conducted API performance testing and improved throughput by **20%**.

Mar 2021 – Jul 2021	**System Admin Intern**, *National Center of Informatics (CNI), Tunis*
	Tech: Linux, Shell, VMware, PostgreSQL, Spring Boot, HAProxy

- Installed, configured, and managed Linux virtual machines and PostgreSQL clusters for high-availability environments.
- Set up a master-slave replication architecture with PostgreSQL to ensure fault tolerance and data consistency.
- Deployed HAProxy load balancers to distribute traffic between backend nodes, achieving better response times under load.
- Developed shell scripts for system maintenance, backups, and automated monitoring tasks.
- Participated in the modernization of legacy Java web apps by migrating them to Spring Boot microservices.

Education

Jul 2023	**Computer Science Engineering Degree**, *National School of Engineers of Carthage*
	Specialization in Software Engineering, Cloud Computing, and Distributed Systems.
	Graduation Project: *"Infrastructure Automation and Cloud Cost Optimization using AWS and Terraform."*
Jun 2020	**Pre-Engineering Degree in Maths & Physics**, *Faculty of Science Monastir*
Jun 2018	**Baccalaureate in Mathematics**, *Nouvelle Medina High School*

Technical Skills

Programming	C#, Python, Java, JavaScript, SQL, Shell
Cloud & DevOps	AWS, CloudFormation, Terraform, Docker, Kubernetes, Jenkins, GitLab CI/CD, Linux, Ansible, Grafana, Prometheus
Web Development	React, ASP.NET Core, Angular, REST APIs, TypeScript
Databases	PostgreSQL, SQL Server, MySQL, DynamoDB
Version Control	Git, GitLab, GitHub, Bitbucket
Monitoring	AWS CloudWatch, Grafana, Prometheus
Other Tools	Jira, Confluence, Microsoft 365, Slack
Certifications	AWS Certified Cloud Practitioner, AWS Certified Solutions Architect – Associate

Languages

Arabic	Native
English	Fluent (TOEIC 940 equivalent)
French	Professional Working Proficiency

Selected Projects

Personal Cloud Portfolio	Deployed a multi-tier web application on AWS using EC2, RDS, and S3. Implemented CI/CD with GitHub Actions and Terraform for infrastructure automation.
DevOps Toolkit	Built a set of Python and Bash scripts for automating cloud resource audits, cost tracking, and daily health checks across AWS accounts.
React Dashboard	Developed a modern admin dashboard with React, integrating APIs and visualizing metrics via Chart.js and AWS API Gateway.