Arselene Belhayej

Software Engineer | Cloud/DevOps

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PROFESSIONAL SUMMARY

Software Engineer with a strong Cloud/DevOps and DevSecOps foundation (AWS, Azure, GCP, Kubernetes, Terraform, GitLab CI/CD, Linux) and hands-on Go, Angular, and React development. Experienced in building automated, secure pipelines (SAST/DAST, image scanning and signing, policy-as-code, secrets management) and GitOps deployments, and running monitored production services.

TECHNICAL SKILLS

Languages & AI/ML: Go, Python, Java, TypeScript, JavaScript, Bash, C++, TensorFlow, PyTorch, LLM integration
DevOps & Cloud: AWS (EC2, S3, EKS, Lambda, IAM, VPC), Azure, Google Cloud Platform (GCP), Docker, Kubernetes, Terraform (IaC), GitLab CI/CD, Jenkins, Azure DevOps, Ansible, Argo CD, Helm, Git, Prometheus, Grafana, ELK Stack, Linux Administration
DevSecOps & Security: Falco, HashiCorp Vault, OPA/Kyverno, Trivy, Cosign, SonarQube, OWASP ZAP, RBAC, SSL/TLS, IBM QRadar
Frameworks & Data: Spring Boot, Angular, React, Tailwind CSS, Node.js, FastAPI, Kafka, PostgreSQL, MongoDB, Keycloak

EXPERIENCE

Software Engineer | Almnabr Consulting Engineering | *Riyadh, Saudi Arabia (Remote)* | *Nov 2025 - Dec 2026*

- Centralized DevOps practices across multiple applications with standardized GitLab CI/CD pipeline templates, accelerating pipeline execution and automating recurring server provisioning.
- Reduced production downtime by diagnosing recurring server and application failures and introducing caching to improve performance and stability.
- Built Angular frontend features integrated with REST APIs; secured and managed Linux servers (access control, backups, networking).

Cloud Engineer | IT SERV | *Tunis, Tunisia* | *Feb 2025 - Aug 2025*

- Built and managed a resilient Kubernetes cluster for scalable orchestration, with Prometheus/Grafana dashboards and ELK logging.
- Automated CI/CD workflows with Jenkins for build, test, scan, and deployment to Kubernetes.
- Developed Spring Boot microservices and an Angular frontend for cloud-native applications, using Kafka for real-time data handling.

Cloud Engineer | Silver Brain AI AG | *Zurich, Switzerland* | *Jun 2024 - Sep 2024*

- Engineered a cloud-based IDE (AWS Cloud9, Lambda, API Gateway); maintained CI/CD with Jenkins, Terraform, and Kubernetes.
- Designed and deployed a secure API Gateway on Azure to centralize and manage service communication across cloud applications.

Cloud Infrastructure Engineer | EmeralDevs | *Ariana, Tunisia* | *Sep 2023 - Feb 2024*

- Built a scalable, self-healing AWS infrastructure (EC2, Auto Scaling, S3) that recovers automatically from failures and sustains uptime under variable workloads.
- Strengthened cloud security by configuring AWS IAM policies, firewall rules, and access controls; automated Infrastructure as Code provisioning with Terraform and Jenkins.

AI Engineer | DataDoIT | *Manouba, Tunisia* | *Jun 2023 - Sep 2023*

- Built and deployed an AI application designed to scale horizontally on a Kubernetes cluster, using Azure DevOps and Terraform for automated, containerized deployment.

Full-Stack Developer | AKRUSS-IT | *Paris, France* | *Feb 2022 - Aug 2022*

- Built an e-learning platform with React.js, Express.js, MongoDB, and TypeScript; optimized resource allocation and load balancing on AWS EC2 with Docker, increasing platform performance by 52%.

PROJECTS

SentinelOps - Intelligent Kubernetes Threat Detection & Automated Incident Response Platform
Java Spring Boot, Python, Angular, PostgreSQL, Docker, Kubernetes, GitLab CI/CD, Terraform, HashiCorp Vault, Falco, OPA/Kyverno, Trivy, Cosign, Argo CD

- Developed an intelligent DevSecOps platform that continuously monitors Kubernetes workloads, correlates runtime security events with deployment metadata, detects suspicious activity, and identifies compromised containers via Falco and automated analysis.
- Engineered automated incident-response and remediation workflows with vulnerability scanning (Trivy), image signature verification (Cosign), policy enforcement (OPA/Kyverno), and GitOps (Argo CD) to block vulnerable or unauthorized workloads from production.

Linux & Application Monitoring Tool *(Go, Linux, Systems Programming)* - Built a custom monitoring tool from scratch in Go to track CPU, memory, and application health across Linux servers.

AI-Powered Auto-Healing & Predictive Scaling in Kubernetes *(Kubernetes, TensorFlow, AWS EKS)* - Built an AI traffic-prediction model (TensorFlow, Prometheus) to optimize resource allocation; deployed resilient EKS clusters with Terraform and RBAC.

EDUCATION

Master's Degree in Engineering (IT Infrastructure and Cloud Technology) | *Sep 2022 - Oct 2025*
ESPRIT, Ariana, Tunisia | Grade: 19.5/20

Bachelor's Degree in Business Intelligence | *Sep 2019 - Jul 2022*
ISIMa, Mahdia, Tunisia | Grade: 19/20

CERTIFICATIONS

AWS Cloud Practitioner Essentials, AWS (Oct 2025); Introduction to Linux (LFS101), The Linux Foundation (Oct 2025); Microsoft Azure Services and Lifecycles, Microsoft (Oct 2024); Microsoft Azure Management Tools and Security Solutions, Microsoft (Oct 2024)

LANGUAGES

Arabic (Native), French (Fluent), English (Fluent), German (Intermediate)