

## Summary

Cloud-native Driven Software Engineer with over 3 years of experience delivering high-impact projects in software development, DevOps, and platform engineering. Recognized for strong problem-solving, technical leadership, and a commitment to innovation and quality. Proven ability to architect and implement scalable solutions in agile environments.

## Experience

### Platform Engineer

Jun 2024 – Present

*Service Changer*

Enschede, Overijssel, Netherlands (Remote)

- Designed and developed an RBAC system using Azure Entra ID and Graph API to manage enterprise users and groups.
- Conducted comprehensive requirements analysis and implemented software design using Node.js, NestJS, PostgreSQL, and Redis with a Domain-Driven Design approach in an Agile Scrum environment.
- Secured, deployed, and managed applications via GitOps (Kubernetes and ArgoCD) ensuring high observability with the Grafana stack.

### DevOps Engineer

Sep 2024 – Dec 2024

*Icosnet*

Algiers, Algeria (Onsite)

- Spearheaded enterprise DevOps transformation by implementing automation, security, and observability best practices.
- Automated infrastructure provisioning with Ansible (for VMs) and Terraform (for Kubernetes clusters: K3s for development, RKE2 for production).
- Implemented GitOps workflows using ArgoCD for continuous deployment with automated rollback.
- Built DevSecOps pipelines integrating SAST (SonarQube) and Trivy along with DAST checks using Falco.
- Configured monitoring with Prometheus and Grafana and established centralized logging with the ELK stack.
- Developed CI/CD pipelines using Jenkins and integrated Harbor as a secure Docker image registry.
- Provisioned and managed CloudNativePG for PostgreSQL in cloud-native Kubernetes environments.

### Backend Software Engineer

Jun 2024 – Sep 2024

*Modus Capital*

United States (Remote)

- Architected and defined requirements for a virtual card system using NestJS and Node.js with CQRS, within an Agile Scrum framework.
- Implemented notifications, audit systems, and data consistency mechanisms in PostgreSQL, including replication.
- Leveraged AWS services (SNS, SQS, CloudWatch, X-Ray) for logging and tracing in a cloud-native environment.
- Deployed and managed the solution on AWS EC2 and complementary cloud services.

### Lead Software Engineer

Dec 2023 – Jun 2024

*ElvaX*

Sidi Bel Abbès, Algeria (Hybrid)

- Provided technical leadership and enforced high-quality coding standards.
- Mentored team members to enhance their technical skills and professional growth.
- Translated Figma designs into dynamic web applications using React/Next.js.
- Architected and built backend systems for small business applications using RESTful APIs, Node.js, and PostgreSQL.

### Software Developer (Freelance)

Aug 2022 – Jun 2024

*Self-Employed*

Worldwide

- Developed a full-stack Inventory Management System using Next.js, Node.js, and PostgreSQL, achieving high client satisfaction.
- Engineered an online CMS backend with NestJS, MongoDB, and RESTful APIs.
- Dockerized applications and deployed them on cloud platforms (GCP Cloud Run, VPS).
- Converted Figma designs into responsive React.js applications with Tailwind CSS.

## Full Stack Developer

Oct 2023 – Apr 2024

*HunterDz*

Sidi Bel Abbès, Algeria (Onsite)

- Developed scalable front-end dashboards for an Online Exam framework using Next.js, shadcn, Tailwind CSS, and TypeScript.
- Implemented backend APIs using GraphQL, Express.js, and Redis.
- Reviewed and refactored existing code to enhance performance and maintainability.

## Professional Projects

### E-Learning Platform

Mar 2024 – Jun 2024

*Higher School of Computer Science (ESI-SBA)*

(Onsite)

- Architected a microservices-based event application with comprehensive UML design and robust system architecture.
- Developed a resource and course management system using Go and MongoDB.
- Integrated a cloud-native IAM solution for secure microservices communication.
- Built interactive dashboard pages with Next.js v14.
- Implemented a notification system using Node.js, Fastify, and Firebase.
- Created a leaderboard feature with Django and PostgreSQL.
- Enhanced a chat service using Fastify, Node.js, and MongoDB.
- Deployed Kafka for event-driven communication, creating topics and events with Go and Node.js.
- Utilized GitOps with ArgoCD, CI pipelines with GitHub Actions, and containerization with Docker.
- Configured and deployed a scalable infrastructure using Linux, MicroK8s, Kubernetes, HPA, NGINX, Grafana, and Prometheus.

### Web-based Hotel Management System

Feb 2023 – Jun 2023

*Higher School of Computer Science (ESI-SBA)*

(Onsite)

- Led the development of a microservices-based hotel management application using an API gateway for secure service integration.
- Implemented inter-service messaging with RabbitMQ and provisioned cloud infrastructure with Terraform.
- Deployed the application using Kubernetes and Docker on Azure AKS/ACR with CI/CD pipelines via GitHub Actions.
- Monitored application performance and health using Grafana and Prometheus.
- Developed the front-end with Next.js and implemented back-end services using Django, Node.js, PostgreSQL, and MongoDB.

## Education

### Higher School of Computer Science (ESI-SBA)

Sidi Bel Abbès, Algeria

*Master and Engineering Degree in Computer Science*

Specialization: Data Science and Artificial Intelligence

Key Areas: Software Engineering, Data Science, DevOps, MLOps

## Skills

**Engineering:** Networking, Databases, Cryptography, Linux, Web Security, Algorithms, Software Design, Agile Scrum

**Back-end:** API Design, CQRS, TDD, Unit/Integration Testing, Caching, Authentication, PostgreSQL, MongoDB, Cassandra, Node.js, NestJS, Fastify, Go, Django

**DevOps:** AWS, Ansible, Terraform, Docker, Kubernetes, CI/CD, Git, ArgoCD, Prometheus, Grafana, ELK Stack, Kafka, Spark, Hadoop, KubeFlow, Cloud-Native Ecosystems

**Front-end:** React.js, Next.js, Tailwind CSS

**Tools:** Clickup, Trello, Confluence, JetBrains IDEs

**Soft Skills:** Leadership, Time Management, Teamwork, Problem Solving, Critical Thinking, Code Review, Continuous Learning

## Languages

Arabic: Native Proficiency

English: Professional Working Proficiency