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Location: Oran, Algeria
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SKILLS

Languages: Java, C, Go, Python, Bash

Technologies: Spring Boot, Spring Data JPA, Spring Security, Hibernate, Docker, Kubernetes, Git, GitLab CI/CD, AWS, Redis, PostgreSQL

Systems: Distributed Systems, Operating Systems, Kernel Internals, Databases, Algorithms, Data Structures

PROFESSIONAL EXPERIENCE

System Engineer – Inria France (Last Year Thesis intern)

Mar 2025 – Jul 2025

stack-research-group.gitlabpages.inria.fr/web

- Developed **On-Demand Buffer (ODB)**, a performance enhancement system that reduced network bandwidth costs by **75%** and improved data transfer speeds by **60%** for large file operations.
- Built a transparent caching layer with **Redis** integration that accelerated application response times from **2.5s** to **1.0s** while maintaining **100%** data integrity.
- Engineered an automatic failover system using **C/Go** that handled **10x concurrent users** without infrastructure upgrades, saving **\$2,400+** monthly in cloud costs.

Backend Developer – Attraxia (Part-time)

Aug 2024 – Mar 2025

- Designed and implemented a secure authentication system using **Spring Security** with **JWT-based stateless sessions**, email verification, and OTP flows; integrated with **Spring Data JPA/Hibernate** for persistent user management.
- Built a real-time assignment tracking platform with **Spring WebFlux WebSockets**, enabling sub-second updates at scale and handling thousands of concurrent connections efficiently.
- Engineered REST APIs with advanced backend patterns: **pagination**, **API rate limiting**, and **centralized exception handling** as well as Database schema optimization, caching strategies, load distribution
- Automated deployments with **Docker** and **GitLab CI/CD**, reducing release time by 90% and ensuring reproducible production builds.

Backend Developer – SellSabeel (Part-time)

Sep 2023 – Mar 2024

- Developed a platform in **Spring Boot (Java)** to automate deployment of Docker-based applications on Amazon cloud services that reduced deployment time from **1–2 hours** to under **10 minutes**, enabling faster SaaS deployment.

Backend Developer – American Corner Oran (Part-time)

Sep 2021 – Mar 2022

- Developed a full-stack **Library and HR management system** using **Spring Boot (Java)**, **Spring Data JPA/Hibernate**, **MySQL**, and **ReactJS**, enabling seamless integration between backend services and the web client.
- Implemented robust **RESTful APIs** with features such as role-based access control, input validation, and error handling, ensuring security and reliability.
- Automated reporting and streamlined workflows, reducing manual administrative tasks by **20+ hours/week** and accelerating data retrieval speed by **80%**.

EDUCATION

Master's in Computer Engineering

Dec 2020 – Jun 2025

National Higher Institute of Telecommunications, Oran, Algeria