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## PROFESSIONAL SUMMARY

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Backend Software Engineer, recently graduated, with 2 years of experience in backend systems acquired as a part-time working student. Open-source contributor to multiple projects.

## PROFESSIONAL EXPERIENCE

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### System Engineer – Inria France (Intern)

Mar 2025 – Jul 2025

[stack-research-group.gitlabpages.inria.fr/web](https://stack-research-group.gitlabpages.inria.fr/web)

- Developed **ODB (On-Demand Buffer)**, a zero-copy system for multi-tier architectures, reducing network bandwidth by **30%** and I/O operations by **20–50%** in image/video workloads.
- Overrode Linux syscalls (`send()`, `recv()`) to optimize data movement, ensuring only final clients fetch payloads.
- Improved distributed system scalability by minimizing intermediate node memory usage.

### Backend Developer – Attraxia (Part-time)

Aug 2024 – Mar 2025

- Built a secure auth flow (OTP, email verification, token-based login/logout) using Django Rest Framework, adopted by 100+ users.
- Designed a real-time assignment tracking system with **WebSockets** and **Django Channels**, cutting notification latency from minutes to milliseconds.
- Containerized and deployed the platform via Docker + GitLab CI/CD, reducing release cycles from 1 day to under 1 hour.

### Backend Developer – SellSabeel (Part-time)

Sep 2023 – Mar 2024

- Developed a web application that automates the deployment of Docker-based applications: users provide a GitHub repository with a `Dockerfile` or `docker-compose.yml`, and the system provisions an AWS EC2 instance, installs dependencies, and runs `docker-compose`—cutting manual setup time from **1–2 hours** to under **10 minutes**.
- Supported multiple concurrent deployments, improving scalability of customer applications.

### System Engineer – LabLabee (Intern)

Apr 2022 – Sep 2022

- Validated lab environments simulating 4G/5G/IMS with Docker containers; ensured connectivity, QoS, and KPIs.
- Contributed to migration from DigitalOcean to AWS, building interactive documentation for training labs.

### Backend Developer – American Corner Oran (Part-time)

Sep 2021 – Mar 2022

- Developed Library + HR system with Spring Boot, ReactJS, MySQL.
- Improved efficiency: reduced manual admin work by **20+ hours/week**, sped up record lookups by **80%**.

## SKILLS

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Java, Python, C, JavaScript, Spring Boot, Django, ReactJS, PostgreSQL, NoSQL, Redis, AWS, Docker, Ansible, Kubernetes, Git, GitLab CI, REST APIs, Microservices, Distributed Systems, Algorithms, Data Structures

## EDUCATION

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### Master's in Computer Networking

Dec 2020 – Jun 2025

National Higher Institute of Telecommunications, Oran, Algeria