

MOULoud ISSILAYINE

Software Engineer | Backend-Focused Full-Stack Developer

 mouloudissilayne@gmail.com

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 mouloud.site

PROFESSIONAL SUMMARY

Software Engineer and Backend-Focused Full-Stack Developer with professional experience building enterprise web applications and microservices-based systems. Specialized in Java, Spring Boot, REST APIs, and backend architecture, with experience in Angular frontend development. Skilled in PostgreSQL, Redis, authentication and authorization, and service-to-service communication. Focused on building reliable, maintainable, and scalable software solutions.

PROFESSIONAL EXPERIENCE

Full Stack Developer

02/2026 – Present

UniSoft — Generic School Management Platform

Contributing to the development of a configurable school management platform built on a microservices architecture to support educational institutions.

- **Backend Development:** Develop and maintain backend services using Java and Spring Boot to support academic administration, student registration, and grade management.
- **Microservices Architecture:** Implement and integrate services through REST APIs, supporting communication between administration, registration, and academic records services.
- **Frontend Integration:** Develop and maintain user-facing features using Angular and PrimeNG, integrating frontend components with backend APIs.
- **Database Management:** Work with PostgreSQL for relational data persistence and Redis for caching and application performance where applicable.
- **Security:** Contribute to authentication and authorization mechanisms and secure communication between services.
- **System Reliability:** Support data consistency, business logic implementation, debugging, and maintenance across the platform.

PROJECTS

Attendance Management System

2026

QR Code-Based Student Attendance Tracking

Technologies: Node.js, MySQL, Prisma ORM, JWT, QR Code, WebSockets, Docker

- Developed attendance management features for students, teachers, groups, courses, and sessions.
- Implemented QR-code-based attendance tracking and geolocation validation.
- Used WebSockets to support real-time attendance updates and communication.

Ihsan API

2026

Backend REST API for a Solidarity Platform

Technologies: Node.js, Express.js, Prisma ORM, PostgreSQL, JWT, Swagger, Docker, Docker Compose

- Developed a REST API for managing community needs, donations, partner activities, and administrative workflows.

- Implemented JWT authentication and role-based access control for donors, partners, validators, and administrators.
- Containerized the API and PostgreSQL database with Docker Compose, including automated database migrations and API documentation with Swagger.

Ticket Management System

02/2025 – 04/2025

Role-Based Ticket Management with Internal Messaging

Technologies: Java, Spring Boot, React, MySQL, JWT, REST APIs, Git

- Developed a ticket management application with User, Agent, and Admin roles.
- Implemented ticket creation, tracking, authentication, and role-based authorization.
- Built REST API integration and real-time discussions between users and agents.

Notarial Case Management System

03/2026 – 09/2026

Digital Management of Notarial Cases and Documents

Technologies: Laravel, Next.js, MySQL, Tailwind CSS, Git

- Contributed to a platform for managing notarial cases, documents, and archives.
- Developed backend functionality and database structures to support case-management workflows.
- Integrated frontend and backend components through REST APIs.



SKILLS

Programming Languages — Java, JavaScript, Python, PHP, SQL | **Backend Development** — Spring Boot, Microservices Architecture, Node.js, Express.js, Laravel, Django, FastAPI, REST APIs |

Frontend Development: — Angular, PrimeNG, React, Next.js, Tailwind CSS, HTML5, CSS3 |

Databases & Caching: — PostgreSQL, MySQL, MongoDB, Redis | **Security & Real-Time Communication** — JWT, Role-Based Access Control (RBAC), WebSockets |

DevOps & Containerization — Docker, Kubernetes, Helm Charts | **CI/CD & Version Control:** — Git, GitHub, GitLab, Argo CD | **ORM & Data Access:** — Prisma ORM, Spring Data JPA / Hibernate



EDUCATION

Master's Degree in Data Engineering & Machine Learning (DEML)

2026 – Present

Institut Supérieur du Numérique (SUPNUM)

Professional Bachelor's Degree in Computer Science — Software Development

2023 – 2026

Institut Supérieur du Numérique

Baccalaureate in Mathematics

2023

L'Excellence 2



AWARDS

3rd Place — Main Challenge, Nuit de l'Info

Competed as part of a team in a software development challenge

2nd Place — Apple Web Accessibility Challenge, Nuit de l'Info

Achieved second place in a web accessibility challenge.