

MOHAMED MSED DI

Senior Backend Java Engineer

mseddi.mohamed@outlook.com | +216 99 481 394 | Sfax, Tunisia | [linkedin.com/in/mohamed-mseddi](https://www.linkedin.com/in/mohamed-mseddi) | github.com/medmsd

PROFILE

Backend-focused Java engineer specializing in scalable microservices architecture, distributed systems, and secure RESTful APIs using Spring Boot and Kubernetes. Experienced in architecting OAuth2 authentication platforms, leading cloud-native migrations, and building high-availability backend services. Delivered production platforms serving 10,000+ users, processing 50,000+ authentication requests daily, while improving deployment speed through CI/CD automation.

KEY ACHIEVEMENTS

- Successfully modernized the deployment infrastructure by migrating 8+ microservices to a cloud-native architecture with minimal service disruption. Built centralized OAuth2 authentication system supporting 5+ applications and 50,000+ daily requests
- Delivered backend platform serving 10,000+ users in production with high availability and secure access control
- Reduced deployment time by 70% through CI/CD automation

PROFESSIONAL EXPERIENCE

Backend Engineer — Byrsa-Tech

08/2021 – Present | France, Remote

Cloud Infrastructure Migration

- Led migration of 8+ microservices from Clever Cloud to Scaleway Kubernetes, then to Scaleway VPS with Coolify, owning containerization, deployment architecture, and infrastructure strategy.
- Reduced deployment time by 70% by implementing automated CI/CD pipelines
- Optimized Kubernetes resource allocation and autoscaling strategies to improve system stability under load
- Wrote unit and integration tests (JUnit, Mockito, Testcontainers) to safeguard service behavior throughout the migration

Defmarket — Benefits App

- Architected OAuth2 authentication and Role-Based Access Control (RBAC) for a production platform serving 10,000+ users, strengthening security and access governance.
- Reduced API response time by 35% through query optimization and caching strategies
- Integrated Stripe payment system handling high transaction volume with secure and reliable processing

OAuth2 Authorization Server

- Architected and delivered a centralized OAuth2 authentication platform securing 5+ production applications and processing over 50,000 authentication requests daily.
- Integrated RabbitMQ for asynchronous communication between the authorization server and connected applications.

Real Estate Management Web App

- Designed and developed backend-driven web platform with server-side rendering, optimizing data fetching and response times
- Reduced page load time by 50% through optimized architecture and rendering strategy
- Implemented scalable filtering system supporting thousands of listings with efficient query handling

TECHNICAL SKILLS

- Languages: Java, Python, TypeScript, SQL
- Backend & API Design: Spring Boot, Spring Security, Spring Authorization Server, Hibernate, RESTful APIs, Microservices Architecture
- Frontend: Angular, Vue.js (Quasar)
- DevOps & Cloud: Docker, Kubernetes, Scaleway, Clever Cloud, Coolify, Jenkins, CI/CD

- Databases: PostgreSQL, MySQL, MongoDB, Redis
- Messaging: RabbitMQ
- Testing: JUnit, Mockito, Testcontainers
- Security: OAuth2, JWT, RBAC
- Tools: Git, Maven, Gradle

CORE COMPETENCIES

- Project Frameworks: Agile Methodologies (Scrum/Kanban)
- Leadership: Technical Leadership, Cross-team Collaboration, Mentoring, Stakeholder Communication
- Documentation: Technical Documentation, API Documentation (Swagger/OpenAPI), System Architecture Design

EARLY PROJECTS

Timesheet Management PaaS — DSO Services (6 months)

- Built multi-role timesheet platform with role-based access control, automating reporting and scheduling workflows

Kubernetes YAML Generator Web Tool — SiFAST (2019)

- Developed web tool to generate Kubernetes configuration files, reducing manual errors in deployment setup

COVID-19 Charity App — International Institute of Technology (2020)

- Developed real-time donation platform using Firebase, enabling processing of 500+ donations with live tracking

EDUCATION

Software Engineer, International Institute of Technology

09/2018 – 07/2021 | Sfax, Tunisia

Bachelor's Degree in Computer Science and Multimedia, Higher Institute of Computer Science and Multimedia

09/2015 – 07/2018 | Sfax, Tunisia

CERTIFICATES

- Big Data Engineer (IBM)

LANGUAGES

English — Fluent | French — Fluent | Arabic — Native