IYED CHAABANE

Full Stack Engineer — Java/Spring Boot & Angular/React Specialist

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Location: Tunis, Tunisia

Professional Summary

Full Stack Engineer with 2+ years of experience designing, developing, and deploying production-grade microservices and distributed systems. Strong expertise in Java, Spring Boot, Spring Security, RESTful APIs, and event-driven architectures (JMS, ActiveMQ). Proven track record of improving system performance, deployment automation, and scalability using Docker, CI/CD pipelines, and modern frontend frameworks (Angular, React). Experienced in building secure, high-availability applications for real-world business use cases.

Technical Skills

Programming Languages
Java • Python • JavaScript (ES6+) • TypeScript • Kotlin

Backend & APIs
Spring Boot • Spring Cloud • FastAPI • REST APIs • SOAP • Hibernate/JPA • Spring Security

Frontend Technologies
Angular • React.js • Next.js • TailwindCSS • Material UI • Responsive UI

Databases & Messaging
PostgreSQL • MySQL • MongoDB • Redis • Apache ActiveMQ • JMS • WebSocket

AI & Automation
OpenAI API • Google Gemini AI • Spring AI • Web Scraping (Selenium, BeautifulSoup) • Data Processing (Pandas)

DevOps & Tools
Docker • Kubernetes • CI/CD • Git/GitHub • Maven • Gradle • Linux

Testing & Methodologies
JUnit • Mockk • Selenium • Integration Testing • Agile/Scrum • JIRA

Professional Experience

Kopileft Services   **Nov 2023 – Present**
Full Stack Engineer   *Tunis, Tunisia*
  – Designed and deployed high-availability, multi-site Point of Sale (POS) solutions using Java and Spring Boot, covering inventory management, customer loyalty, and payment synchronization.
  – Architected and developed REST and SOAP APIs using Java (Spring Boot) and Python (FastAPI) to integrate with central systems and third-party services.
  – Implemented reliable asynchronous inter-service communication using JMS and Apache ActiveMQ.
  – Led the automation of integration and validation testing using JUnit, MockK, and Docker, reducing time to production by 40%.
  – Developed Front-End interfaces using Angular and React, connected to secure REST-based services.
  – Managed and resolved tickets related to defects, functional enhancements, and performance optimizations within an Agile Scrum environment.

Enova Robotique   **Feb 2023 – Jun 2023**
Full Stack Developer Engineer – Final Year Project   *Tunis, Tunisia*
  – Designed and developed a real-time multi-robot supervision system for monitoring, diagnostics, and operational tracking.

  – Implemented automated reporting features and stored historical telemetry data in MongoDB to support trend analysis and performance monitoring.
  – Improved robotic system performance and data-driven decision-making through real-time analysis and system feedback loops.

Abajim   **Jul 2022 – Aug 2022**
Full Stack Developer Engineer – Summer Internship   *Tunis, Tunisia*
  – Developed full-stack educational platform with course management and student tracking supporting 200+ concurrent users, built using Java EE, Hibernate, Angular, and MySQL with JWT authentication and role-based access control (RBAC). Delivered MVP in 8 weeks with secure content delivery, user engagement tracking, and 99.5% uptime during pilot phase.

- Implemented RESTful API layer and database optimization strategies with normalized schema design and indexing for frequently queried data. Achieved 3x query performance improvement and 40% reduction in server load.

Featured Projects

Book Social Network | *Spring Boot 3, Angular 17, PostgreSQL, Docker, Spring Security* **GitHub**
- Engineered social platform enabling 1000+ users to share reviews, manage collections, and connect with fellow readers.
- Implemented OAuth2/JWT authentication, RESTful APIs with Swagger documentation, and containerized deployment pipeline.
- Built responsive Angular 17 SPA with lazy loading, state management, and real-time notifications via WebSocket.

Foodies – Food Delivery Platform | *Spring Boot, React, MongoDB, Redis, Docker, Payment Gateway* **GitHub**
- Architected end-to-end food delivery ecosystem with customer app, admin dashboard, and backend microservices.
- Integrated Cloudinary CDN, Brevo email service, Konnect payment gateway, and Redis caching for sub-second response times.
- Designed React frontend with TailwindCSS achieving 95+ Lighthouse performance score and mobile-first UX.

Finance Tracker | *Spring Boot 3, React, PostgreSQL, ExchangeRate API, Docker, i18n* **GitHub**
- Created personal finance SaaS with expense tracking, budgeting, multi-currency support, and data visualization.
- Implemented Spring Security, MapStruct DTOs, real-time currency conversion via external API, and Recharts analytics.
- Built internationalization (i18n) supporting English/Arabic/French with automatic RTL layout switching.

AI Chatbot Integration | *Spring Boot 3, Spring AI, Google Gemini, OpenAPI* **GitHub**
- Integrated Google Gemini AI into Spring Boot application using Spring AI framework for conversational intelligence.
- Designed RESTful endpoints with Swagger documentation, environment-based configuration, and production-ready error handling.

Web Image Scraper | *Python, Selenium, BeautifulSoup, Pandas, OOP* **GitHub**
- Developed enterprise-grade web scraping tool for automated dataset creation from dynamic JavaScript-heavy websites.
- Implemented Selenium WebDriver for browser automation, BeautifulSoup for parsing, and CSV export with 10K+ image processing capability.

Education

National School of Electronics and Telecommunications of Sfax (ENET'Com)	**2020 − 2023**
National Engineering Diploma in Industrial Computing	*Sfax, Tunisia*
Higher Institute of Applied Sciences and Technology (ISSAT)	**2018 − 2020**
Preparatory Cycle in Mathematics and Physics	*Mahdia, Tunisia*

Languages

Arabic: Native | **French**: Professional Working Proficiency | **English**: Professional Working Proficiency

Interests

Software Architecture ● AI/ML Applications ● Open Source Contribution ● Cloud-Native Technologies ● DevOps Culture ● Continuous Learning