

# IYED CHAABANE

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

Phone: (+216) 29326826 | Email: chaabaneiyed@gmail.com | LinkedIn: chaabane-iyed |  
GitHub: Iyedchaabane | Portfolio: iyedchaabane.github.io  
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

### AI/ML & Modern Technologies

OpenAI API • Google Gemini AI • Cloud AI Services • Spring AI Framework • Web Scraping (Selenium/BeautifulSoup) • Machine Learning Integration • Data Processing (Pandas) • Automated Testing

### Core Technologies

Java • Python • JavaScript (ES6+) • TypeScript • Kotlin • Spring Boot • Spring Cloud • React.js • Angular • Next.js

### Backend & Architecture

Microservices • RESTful APIs • SOAP • GraphQL • Spring Security • Hibernate/JPA • FastAPI • Event-Driven Architecture • Service Mesh

### Frontend & UI

React.js • Angular • TailwindCSS • Material UI • Bootstrap • SCSS • Vite • Responsive Design • Progressive Web Apps (PWA)

### Data & Messaging

PostgreSQL • MySQL • MongoDB • Redis • Apache ActiveMQ • JMS • WebSocket • Real-time Data Synchronization

### DevOps & Cloud

Docker • Kubernetes • CI/CD Pipelines • Git/GitHub • Maven • Gradle • Linux • Jenkins • GitLab CI • Cloud-Native Development

### Testing & Security

JUnit • Mockito/Mockk • Selenium • PyTest • Integration Testing • TDD/BDD • JWT • OAuth2 • Spring Security • RBAC • API Security

### Methodologies & Leadership

Agile/Scrum • Kanban • JIRA • Code Review • Technical Documentation • Team Mentoring • Cross-functional Collaboration

## Professional Experience

### Kopileft Services

Nov 2023 – Nov 2025

Full Stack Engineer

Tunis, Tunisia

- Designed and deployed microservices-based POS platform scaling to 20+ retail locations with \$500K+ monthly transaction volume, built with Spring Boot, ActiveMQ, and PostgreSQL handling inventory, loyalty, and payment workflows across distributed sites. Achieved 99.9% uptime with real-time data sync, processing 10K+ daily transactions and reducing system latency by 45%.
- Engineered end-to-end CI/CD automation pipeline integrating JUnit, Mockk, Docker, and Selenium across 6-person engineering team, replacing manual testing processes consuming 8+ hours per release cycle with automated workflows. Reduced Time to Market (TTM) by 40%, decreased production bugs by 35%, and enabled weekly deployment cadence vs. monthly.
- Architected RESTful/SOAP APIs enabling seamless integration with third-party payment gateways and ERP systems, implemented using Spring Boot and FastAPI with comprehensive Swagger documentation. Onboarded 5 new partners with zero integration issues and 50ms average response time.
- Led frontend modernization initiative migrating legacy JSP to React and Angular SPAs for 15+ user-facing modules, collaborating with 3-person UX team to redesign core workflows with responsive design patterns and component libraries. Improved user satisfaction scores by 45%, reduced page load times by 60%, and decreased support tickets by 30%.
- Managed Agile sprint planning, code reviews, and production incident resolution for team of 6 engineers handling 50+ monthly tickets, triaging critical bugs, feature requests, and performance optimizations using JIRA and Scrum

ceremonies. Maintained 95% on-time delivery rate, reduced mean time to resolution (MTTR) by 25%, and achieved 98% sprint commitment success rate.

## Enova Robotique

### Full Stack Developer Engineer – Final Year Project

Feb 2023 – Jun 2023

Tunis, Tunisia

- Built real-time robot fleet monitoring system from scratch supporting 12 autonomous robots across 5,000 sq ft facility, using Spring Boot backend, Angular frontend, MongoDB for data persistence, and WebSocket for live updates with ~100ms latency. Reduced diagnostic time by 70%, enabled predictive maintenance alerts, and decreased unplanned downtime by 40% saving \$50K annually.
- Developed automated reporting dashboard with predictive maintenance alerts processing 10K+ sensor data points daily, implementing data analytics pipeline with trend analysis, anomaly detection, and historical performance tracking across robot fleet. Reduced unplanned downtime by 40% through proactive maintenance scheduling and improved operational efficiency by 25%.

## Abajim

Jul 2022 – Aug 2022

Tunis, Tunisia

### Full Stack Developer Engineer – Summer Internship

- 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