

Ghassen Bargougui — Software Engineer

Full-Stack & Backend Specialist

Luxembourg City, Luxembourg

☎ +352 661 120 421 • ✉ ghassen.brg16@gmail.com • in ghassenbrg
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Professional Summary

Experienced **Full-Stack Software Engineer** with **5+ years** of experience in **back-end development, microservice architectures, and scalable enterprise applications**. Specialized in **Java (Spring Boot, Java EE, Hibernate)** and **Angular**. **Oracle Certified Java SE 11 Developer**, with additional hands-on experience in **CI/CD pipelines, containerization, and infrastructure automation**. Passionate about **clean architecture, code quality, and performance tuning** in complex software systems.

Fluent in **English, and French**, with basic proficiency in **Japanese**.

Core Competencies

Backend & Full-Stack Development:

- **Languages & Frameworks:** Java (Spring Boot, Java EE, Hibernate, JPA), Angular, TypeScript, JavaScript, Node.js, HTML5, CSS3, PrimeNG
- **API Development:** RESTful API Design, OpenAPI
- **Microservices & Event-Driven Systems:** Spring Cloud, ActiveMQ
- **High-Performance Computing:** Asynchronous Processing, Multi-threading, JProfiler
- **State Management:** RxJS, NgRx (Basic)

Database & Data Processing:

- **SQL Databases:** PostgreSQL, MySQL, Oracle (PL/SQL)
- **NoSQL Databases:** MongoDB
- **Data Optimization:** Query Performance Tuning, Apache POI (Excel Processing)

DevOps & Infrastructure Automation:

- **Containerization & CI/CD:** Docker, Jenkins, GitLab CI/CD
- **Cloud & Deployment:** AWS, Nginx, WildFly, Tomcat
- **Infrastructure & Security:** Keycloak (OAuth2, OIDC, JWT), Linux Server Management

Testing & Code Quality:

- **Automated Testing:** JUnit, Mockito, Integration Tests
- **Static Code Analysis:** SonarQube, Code Review Best Practices

Agile Development & Collaboration:

- **Methodologies:** Scrum, Agile
- **Tools:** Jira, Git, Confluence

Professional Experience

Sogeti, Luxembourg

Software Engineer

Feb 2025 – Present

- Engaged in **technical training and upskilling** to meet evolving client requirements, focusing on **backend development, DevOps automation, and cloud solutions**.
- Contributing to **internal R&D initiatives** and knowledge sharing sessions, exploring cloud native architectures and best practices in API security.

CBTW, Luxembourg

Java Full-Stack Developer

Sept 2024 – Jan 2025

- Developed **enterprise web applications** using **Spring Boot, Angular, and PostgreSQL**.
- Built and optimized **RESTful APIs** for high-performance communication.
- Refactored **monolithic components** into microservices, improving scalability and maintainability.
- Automated application deployment with **Jenkins & Docker**, reducing manual release efforts.

- Led **backend engineering efforts** for multiple high-traffic **insurance & financial applications**.
- Designed and optimized **high-volume transactional APIs**, ensuring high availability and performance.
- Implemented **Keycloak-based authentication & RBAC**, improving access security.
- Reduced **API response time by 50%** through **query optimization and caching strategies**.
- Built **automated workflows** using ActiveMQ for bulk processing, increasing efficiency by **40%**.
- Managed **CI/CD pipelines**, ensuring seamless deployments and rollback strategies.

Key Projects & Achievements.....

SalesFlow (Lead Developer):

- Led the transition to a **Camunda BPM-based architecture**, reducing manual processes by **30%**.
- Conducted **functional analysis and client workshops** to refine business requirements.
- Designed and developed **high-performance REST APIs** and scalable microservices.
- Implemented a **multi-threaded batch processing system**, optimizing large insurance transactions.

PackManager (Backend Developer):

- Developed a **configuration platform for insurance products**, streamlining offer creation.
- Designed and optimized **RESTful APIs** for flexible insurance product customization.
- Refactored **legacy code** to improve maintainability and reduce technical debt.
- Improved system execution using **JProfiler**, enhancing response time by **35%**.

Solife Digital & Generali Subscription Portal (Full-Stack Developer):

- Designed and implemented a **unified platform** for insurance brokers and agents to manage life insurance offers and workflows.
- Developed **high-performance REST APIs** for BPMN-based workflow automation.
- Integrated **Keycloak SSO** for secure authentication and enhanced user management.
- Revamped the **user interface with Angular**, improving responsiveness and user experience.

Magikforms (Backend Developer):

- Built **high-volume document processing microservices**, supporting parallel execution.
- Integrated **ActiveMQ** for bulk processing, increasing transaction speed by **40%**.
- Automated **user management** via Keycloak API to streamline authentication.
- Optimized performance using **JProfiler** for high-volume operations.

Insurance Pricing Module (Full-Stack Developer):

- Led **functional analysis** through stakeholder interviews to define system requirements.
- Developed **features for product configuration and premium calculation**.
- Implemented **actuarial functions** in Java, ensuring precise insurance pricing.
- Enhanced **data integration with Apache POI**, improving large-scale Excel-based imports.

Certifications

Oracle

Oracle Certified Professional, Java SE 11 Developer

Certification Badge: <https://bit.ly/ocp11gb>

Sept 2022

Education

ESPRIT (Private Higher School of Engineering and Technology)

Engineer's Degree in Software Engineering

Tunis, Tunisia

Sept 2019 – July 2023

ISIMM (Higher Institute of Computer Science and Mathematics)

Bachelor's Degree in Computer Science

Monastir, Tunisia

Sept 2015 – June 2019

Languages

- Arabic: Native
- English: Advanced, Fluent
- French: Advanced, Fluent
- Japanese: Beginner, Basic Proficiency