RAMZI BOUZAIENE

Full Stack Software Engineer

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My Portfolio — LinkedIn — GitHub — Medium

Professional Summary

Full Stack Software Engineer with 4+ years of experience, specializing in backend architecture for enterprise banking solutions serving 1M+ users. Expert in designing and deploying Java/Spring Boot microservices with 99.9% uptime and zero security incidents across mission-critical financial platforms. Proven track record in managing complex backend integrations including custom Keycloak SPI implementations, SOAP-based authentication services, and BPMN workflow automation. Strong full stack capabilities with modern frontend technologies (React, Angular) complementing deep backend expertise.

Technical Skills

Expert: Java, Spring Boot, Spring Security, RESTful APIs, PostgreSQL, Docker, Git, Microservices Architecture

Proficient: React.js, Spring Cloud, JavaScript, TypeScript, MongoDB, Node.js, Express.js CI/CD (GitLab)

Familiar: Angular, GraphQL, MySQL, Redis, BPMN (Flowable), Apache Camel, Keycloak, Kubernetes

Tools & Platforms: APISIX Gateway, Liquibase, JUnit, Mockito, Jest, Argo CD, SOAP, PrimeFaces

Professional Experience

Backend Engineer at **Proxym-Group**   *Sept 2023 – Present*
Sousse, Tunisia

- As Tech Lead on UBank – API Gateway, led the design and implementation of a secure APISIX API Gateway, enabling real-time RTP/FedNow payments via Fiserv Payments Exchange while ensuring compliant third-party access and scalable embedded finance integration.
- Designed and developed scalable Java and Spring Boot backend services for enterprise banking platforms serving over 1M active users.
- Enhanced authentication reliability and system security by implementing a custom Keycloak SPI integrated with SOAP-based Vasco authentication services, securing sensitive data for 1M+ users.
- Developed a comprehensive back-office management system using JSP and PrimeFaces, reducing administrative processing time by 50% and streamlining customer request handling.
- Delivered a full-featured retail banking platform supporting account management, card services, transfers, currency exchange, and bill payments with zero production security incidents.
- Automated complex business workflows using BPMN and the Flowable engine, eliminating hours of manual processing per month.
- Collaborated within Agile/Scrum teams of 12+ engineers, product managers, and business analysts to deliver high-quality features on schedule.
- Mentored junior developers and interns, enforcing code review standards and best practices that reduced production defects and improved code maintainability.

Frontend Developer at **Sastec Tn**   *Jan 2023 – Aug 2023*
Sousse, Tunisia

- Developed a reusable React component library adopted across 5+ applications, improving UI consistency and accelerating feature delivery.
- Optimized real-time video streaming performance, reducing end-to-end latency for a conferencing platform supporting 500+ concurrent users.
- Implemented comprehensive unit tests using Jest and React Testing Library, improving code reliability and reducing production issues.
- Migrated legacy REST APIs to GraphQL, reducing redundant network calls and improving application responsiveness.
- Delivered a custom Vue.js interactive video player with advanced playback features, increasing user engagement and receiving positive feedback from 200+ beta users.

Frontend Developer at **Siyou Technology**   *July 2022 – Dec 2022*
Sousse, Tunisia

- Built and maintained a large-scale B2S2C e-commerce platform using Angular for 50+ business clients
- Improved application stability by diagnosing and resolving critical performance bottlenecks significantly reducing system downtime.
- Led the development of a scalable B2B platform using React, TypeScript, and Ant Design, improving page load times and enhancing the user experience for enterprise customers.
- Contributed to the development of two Angular projects: B2S (Business to Shop) and S2C (Shop to Customer).
- Developed and optimized reusable components for high responsiveness, performance and improving load times.

Key Projects

UBank – API Gateway for Real-Time Payments | *APISIX, RTP/FedNow, Fiserv, Lua*

- Designed and implemented an APISIX-based backend API Gateway for real-time communication between banking systems and external partners.
- Integrated RTP/FedNow payments via Fiserv Payments Exchange, enabling scalable real-time money transfer services.
- Implemented routing, access control, and traffic management to support reliable and secure partner integrations.

BNA Bank Authentication System | *Java, Keycloak SPI, SOAP, GitLab CI/CD*

- Built a Java backend module using a custom Keycloak SPI to extend authentication and validation within an existing banking system.
- Integrated with Vasco identity services via SOAP, supporting legacy user authentication and ensuring system reliability.
- Implemented backend authentication flows, automated tests, and production deployment processes with GitLab CI/CD.

CORIS Bank Retail Platform | *Java, Spring Boot, JSF, PostgreSQL, Liquibase, BPMN, Flowable*

- Developed scalable backend services for a retail banking platform handling accounts, cards, transfers, currency, and billers using Spring Boot.
- Implemented logging, audit trails, and integration with external REST APIs to support production readiness and maintainability.
- Participated in UAT, deployments, and technical validation with client teams to ensure smooth production operations.

BICICI Digital Platform | *Java, Spring Boot, BPMN, Flowable, PostgreSQL*

- Developed Spring Boot backend services for workflow automation of customer service and back-office operations.
- Integrated Flowable BPMN processes to digitize service requests and approval workflows, improving operational efficiency.
- Collaborated with analysts to translate manual processes into maintainable backend workflows and ensured system reliability in production.

Education

EPI – International Multidisciplinary School at **Engineer's Degree in Software Engineering — Evening Program** *Sousse, Tunisia*
September 2023 – June 2026

Higher Institute of Applied Science and Technology (ISSAT Sousse) at **Bachelor's Degree in Software Engineering***Sousse, Tunisia*
September 2019 – June 2022

Languages

Arabic: Native | **English:** Professional working proficiency | **French:** Professional working proficiency

Certifications

Fundamentals of LLMs – Hugging Face

AWS Cloud Technical Essentials – Coursera

Developing Back-End Apps with Node.js and Express – Coursera (IBM)

Advanced React – Coursera (Meta)