Yahya Saadaoui

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SUMMARY

Software Engineer with a strong academic background and hands-on experience in full-stack development gained through intensive internship, freelance, and real-world projects. Skilled in backend technologies such as Java, Spring Boot, Kafka, and microservices architecture, as well as frontend development using React, Angular, and JavaScript. Contributed to production-grade systems, API integrations, and scalable solutions during my final-year internship at HPS and other professional-grade projects. Comfortable working with cloud-native tools like Docker and Kubernetes and committed to delivering clean, maintainable, and secure code.

WORK EXPERIENCE

Software Engineer Intern at HPS, Casablanca   24/02/2025 - 24/08/2025

- Migrated a legacy C-based payment protocol into a modern Java Spring Boot microservices architecture, aligned with ISO 8583 standards.
- Reimplemented critical backend logic for processing Mastercard transaction messages (authorization, reversal, advice, file upload) in a clean, modular, and testable Java codebase.
- Contributed to the design and implementation of a reusable backend SDK that encapsulates message parsing, field mapping, and protocol business logic.
- Developed maintainable backend services that interface with Kafka-based messaging and existing observability and deployment infrastructure.

Software Engineer Intern at HPS, Casablanca   02/07/2024 - 30/08/2024

During my internship at HPS, I played a key role in developing a full-stack solution that enhanced cash management security by integrating the SmartBox system with the PowerCARD platform. My contributions included:

- Designed and implemented a microservices architecture using Spring Boot for modules like Admin Dashboard, Merchant Onboarding, and Merchant Servicing.
- Integrated Eureka for service discovery and Spring Security for role-based authentication and token management.
- Set up Kafka for reliable message queueing, enabling asynchronous communication between microservices for tasks like transaction settlement.
- Developed an Angular dashboard for managing merchants, contracts, and users, implementing CRUD functionalities and role-based navigation.
- Enhanced user experience with authentication guards and secure role-specific access.
- Utilized AWS S3 for storing user profile images and contract PDFs, ensuring secure and scalable data management.
- Created tables for dynamic values like CdfTypes, Currency, and SettlementType, as well as additional merchant data like addresses and activities.
- Leadership & Team Collaboration:
- Served as the go-to engineer for my team, providing support with technical challenges and fostering a collaborative work environment.

React FullStack developer at Pixel Shades   10/07/2023 - 10/09/2023

- Developed and maintained React websites, incorporating responsive design features
- Executed a WordPress project from scratch, performing advanced template modifications.

Frontend Developer at ASversity   01/12/2022 - 01/02/2023

- Contributed to the enhancement of an existing Vue.js application, adding new features and improving UI responsiveness.
- Demonstrated teamwork and collaboration in a remote environment while working closely with another developer.
- Strengthened hands-on frontend development skills and gained valuable entrepreneurial experience in a small business context.

Frontend Developer Intern at Ultra Software   01/04/2022 - 01/05/2022

- Independently managed the full development cycle of a WordPress-based e-commerce website for a local wholesaler.
- Delivered a complete frontend and backend solution, incorporating feedback to improve UX and optimize the client's online sales process.
- Showcased adaptability, autonomy, and full ownership of the project in a real business setting.

EDUCATION

Engineering Degree in Software Engineering   09/2022 - 07/14/2025

- EMSI LES ORANGES, Casablanca, 2025.

Web developer "ISTA NTIC" in Beni Mellal   2021-2022

Scientific baccalaureate experimental physical science   2020-2021

- At "EL MASSIRA High School" in AZILAL.

ADDITIONAL INFORMATION

- **Technical Skills :**
  - **Programming Languages :** Java, Python, JavaScript, TypeScript, PHP, C / C++, C#, SQL, PL/SQL .
  - **Backend & Microservices :** Spring Boot, Spring Security, Node.js, Kafka, JWT Authentication, REST APIs, Microservices Architecture.
  - **Frontend & UI :** HTML , CSS , Angular, React.js, Next.js, Vue.js, Symfony, Laravel, Bootstrap, Tailwind CSS, Figma, Clerk (Auth), Vercel.
  - **Database Management :** PostgreSQL, MySQL, MongoDB, Supabase, Prisma, Transact SQL.
  - **Tools & DevOps :** Git, GitHub, Bitbucket, Docker, Maven, Gradle.
  - **IDEs & Software :** IntelliJ IDEA, Visual Studio Code, Visual Studio, OpenLens.
- **Languages :** Arabic (native), French (professional), and English (professional).
- **Certifications :**
  - Certificate in Docker, Kubernetes, and Containers.
  - Certificate in DevOps Fundamentals.
  - Certificate in React Native.
  - Certificate in Git and GitHub.
  - Certificate in Virtual Networks (Azure).
  - Certificate in React (Meta).
  - Certificate in ASP.NET Fundamentals.
  - Certificate Python For Everybody.
  - Certificate Software Engineering: Modeling Software Systems using UML.
  - Certificate Unix System Basics.