



Yahya El Omari

Full-Stack Software Engineer | Backend-Focused

🇺🇸 U.S. Citizen 🗣️ English & Arabic (Native), French (Fluent)

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Software engineer building production-grade full-stack web applications and enterprise portals. Experienced in **Java**, **Spring Boot**, **JavaScript** and **Next.js**, and open to new stacks such as Angular: curiosity and adaptability mean I pick up new tools and concepts faster than most.

Experience

Software Engineer

HealthPack • Personal Project

September 2026 – Present

Rabat, Morocco

- Building a **hospital coordination platform** planned as **15 Spring Boot services**; patients, scheduling and the gateway run.
- Secured the gateway with **Keycloak**: JWT validation, with realm roles mapped to Spring authorities.
- Scheduling checks over **gRPC** that the patient exists before booking; a **PostgreSQL exclusion constraint** blocks double-booking.

Stack: Java 25, Spring Boot 4, gRPC, Keycloak (OIDC/JWT), PostgreSQL, Flyway, Testcontainers, Docker, Swagger

Case study: yahyaelomari.com/work/health-pack

Software Engineer

VOID Agency (client: Atos) • Internship, On-site

February 2026 – August 2026

Casablanca, Morocco

- Rebuilt Atos's international web portal on a **decoupled architecture** with an 8-person **Agile Scrum** team: **20 regions**, **9 languages**, and a **PHP back office** built for **300+ concurrent editors**, working directly with the client's Product Owner.
- Built the **SEO monitoring module** covering every page in all 20 regions and 9 languages, reaching a **100% SEO score** (Lighthouse 91 performance, 94 accessibility, 92 best practices).
- Built the **data migration module** moving legacy content and structured data from atos.net to the future atos.ai.
- Deployed to **AWS** in the team's release process, with **Docker** across local, staging and production.
- Built the **Playwright test framework** that took dynamic content from **0% to 100% test coverage** across all 7 content types, with the pages to test set from the back office at runtime, and ran stress testing with **Apache JMeter**.
- Contributed **3 changes** (a bug fix, an optimization, a UX fix) to the agency's shared framework, used by every client.

Stack: Drupal 10, PHP, JSON:API, Next.js, React, Redis, MySQL, Docker, Nginx, AWS, Playwright, Apache JMeter, Git

Case study: yahyaelomari.com/work/atos-portal

AI Automation Engineer

Ahdigital • Internship, Hybrid

July 2025 – September 2025

Agadir, Morocco

- Applied **agentic engineering** to a competitor-monitoring platform: the moment a tracked account publishes, AI agents analyse the post against that account's full history and return a recommended action with a ready-to-edit draft.
- Built the **agentic media pipeline**: AI agents write a stronger counter-post and its short-form video, held for human approval.

Stack: n8n, Supabase (PostgreSQL), React, Node.js, Docker, Vercel, REST APIs, Webhooks, Gemini API, Hugging Face

Case study: yahyaelomari.com/work/ai-workflows

Software Engineer

OpenTecc • Internship, Remote

February 2025 – June 2025

London, UK

- Built **Amanti**, a last-mile delivery platform, **from scratch as one of 2 engineers**: Spring Boot backend, admin dashboards, payments and merchant integration.
- Implemented role-based access control across 3 user roles with AOP audit logging, giving full traceability of every transaction, plus a QR-code and photo-validation handover flow.
- Integrated the **Stripe** API into the Spring Boot backend and shipped a native **Shopify** checkout plugin driven by webhooks, after rejecting a pre-payment flow (friction) and a browser extension (security).
- **Designed the entire Amanti system with UML diagrams**, then raised **test coverage from 20% to 80%** with JUnit and Mockito, with SonarQube for code quality.

Stack: Java, Spring Boot, REST APIs, PostgreSQL, Next.js, Stripe, Shopify, Docker, JUnit, Mockito, SonarQube, GitLab, Jira

Case study: yahyaelomari.com/work/amanti

Education

National School of Applied Sciences of Agadir (ENSA)

Computer Science (U.S. equiv.: **M.Eng.**) – Distinction: **Bien** (≈ 4.0 GPA)

2020 – 2026

Agadir, Morocco

Al Hanane Groupe

Physical Sciences (U.S. equiv.: **H.S. Diploma**) – Distinction: **Très Bien** (≈ 4.0 GPA)

2019 – 2020

Agadir, Morocco

Technical Skills

Languages: Java, JavaScript, TypeScript, PHP, SQL/PLSQL

Backend & Data: Spring Boot, Microservices, REST APIs, JSON:API, Apache Kafka, Redis, MySQL, PostgreSQL

Front End: React, Next.js, HTML5, CSS3, Tailwind CSS, Material UI

Infrastructure & Quality: Docker, Linux, Nginx, AWS, Vercel, Git/GitHub, JUnit, Mockito, SonarQube, Playwright, Apache JMeter, AI-assisted development (Claude Code)

Activities & Additional Skills

Soft Skills: Adaptability and quick learning • Communication and collaboration • Problem solving

Teaching: Designed and taught a four-session Git & GitHub workshop for engineering students at APPS Club.

Leadership: Managed operational budgets and club activities as Treasurer of APPS Club.