

Reda Firoud

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Senior Backend & Fullstack Engineer, Java / Spring Boot & Angular

REST APIs · Service-oriented architecture · PostgreSQL · AWS · AI integration

PROFILE

Fullstack engineer with 3+ years building Java and Spring Boot systems and Angular interfaces in production, from the data model to cloud delivery on AWS. I enjoy deep technical work: architecture across service boundaries, performance engineering at the data layer (a 65 to 75% reduction in filtering latency at Mapersive), bridging AI into strongly-typed backends, and quality carried through code review and tests.

TECHNICAL SKILLS

Languages: Java, TypeScript, JavaScript, HTML, CSS, SQL

Backend & frameworks: Spring Boot, Spring Framework, Spring Data JPA, Spring Security, Spring Cloud, Hibernate, MapStruct, REST API design, service-oriented architecture, Node.js, Express

Frontend: Angular, React, Redux

Data: PostgreSQL, MySQL, Liquibase, SQL query optimization, projections, N+1 elimination

Cloud, DevOps & tools: AWS (S3, ECR, AWS Batch, Cognito), Docker, Terraform, Jenkins, GitLab CI, Git, Maven, Keycloak, Digma

AI / LLM: LLM extraction pipelines (Java to Python inference), natural language to safe SQL, prompt validation, retry orchestration

Testing: JUnit, Mockito, Playwright, integration testing

PROFESSIONAL EXPERIENCE

Senior Cloud Fullstack Engineer, Java & Angular

Mapersive | Casablanca, Morocco | May 2026 to Present

- Run sprint planning and retrospectives, breaking client requirements into scoped, prioritized work and keeping delivery on track
- Work directly with Moroccan and overseas clients, turning requests into concrete engineering tasks and committed timelines, and shipped a requested feature set within a single sprint
- Improved the visual quality of the KR pano viewer and built a report on top of the platform's photogrammetry output

Cloud Fullstack Engineer, Java & Angular

Mapersive | Casablanca, Morocco | Nov 2024 to May 2026

- Led architecture of an AI extraction pipeline integrating Java services with a Python inference layer: prompt validation, structured response parsing, ambiguity detection, and idempotent retry orchestration for deterministic behavior over a non-deterministic system
- Built a production natural-language filtering engine translating freeform intent into safe, structured SQL, with strict guardrails against data leakage
- Drove a 65 to 75% reduction in global filtering latency: eliminated N+1 patterns, redesigned query strategies, introduced projection-based access and targeted denormalization
- Built a reusable, type-safe filtering framework using Java Generics; migrated UUIDs to time-sortable TSIDs with zero-downtime schema evolution via Liquibase
- Delivered full-stack: responsive Angular UIs, Playwright e2e and integration tests, AWS (S3, ECR, Batch), Terraform, CI/CD, plus KR pano spatial-data handling with secure ArcGIS integration

Fullstack Engineer, Java & Angular

Capgemini | Casablanca, Morocco | Nov 2023 to Oct 2024

- Maintained and evolved the group's internal cybersecurity project-management application
- Redesigned and extended the employee trial-period management app, building the Angular interfaces
- Migrated internal application deployment to a Jenkins CI/CD pipeline

Java & Angular Trainer

Youcode / Simplon | Morocco | Aug 2023 to Nov 2023

- Trained junior developers in Java and Angular within a non-profit project, through a project-based approach
- Guided development teams through complex software projects using agile methodologies

Fullstack Java & React Developer

Adria DigiTrust | Casablanca, Morocco | Feb 2023 to Jun 2023

- Redesigned and evolved a digital-certificate lifecycle management platform, with React and Redux interfaces
- Built a middleware adding functionality and a security layer over an EDMS, and wrote the technical specs to integrate it with other company applications

PROJECTS

LogsANC, VS Code Extension. Published extension that tackles log-file clutter during debugging: two filtering modes (dim and hard-hide), live stream with auto-refresh, right-click filter creation, and a persistent filter panel. TypeScript, VS Code Extension API.

EDUCATION

State Engineer's Degree in Computer Networks & Information Systems

Cadi Ayyad University, Marrakech, Morocco | 2021 to 2023

Bachelor's Degree in Distributed Computer Systems

Cadi Ayyad University, Marrakech, Morocco | 2018 to 2021

ADDITIONAL

Languages: Arabic (native), French (fluent), English (fluent)

Open to remote, hybrid in Casablanca, and relocation.