Sohayb Hassan

Full-Stack Engineer · Java / Spring Boot · React · Banking & Financial Services

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PROFILE

Full-stack engineer with six years at Capgemini building backend and web systems for banks, insurers and corporate clients. Currently delivers features end to end on a retail bank's mobile platform: Java 17 / Spring Boot 3 microservices, an OpenAPI-first BFF layer on JDK 21 and the React Native app. At home with the unglamorous side of banking integration (legacy hosts, BPM processes, multi-environment release pipelines) and with the tooling that keeps a large multi-repository programme moving. Started out migrating COBOL to Spring Boot; now spends personal time on LLM-assisted modernisation tooling where the output is verified, not trusted.

EXPERIENCE

Consultant – Full Stack · Capgemini, Turin, Italy

08/2023 – present

Mobile banking platform — major Italian retail banking group 02/2025 – present

- Deliver features end to end across all three layers: Java 17 / Spring Boot 3 microservices, an OpenAPI-first BFF on JDK 21 and the React Native / Redux Toolkit app.
- Design and build new banking product flows and REST APIs, from the OpenAPI contract through the BFF and microservice to the app state, including hand-offs to the bank's BPM processes.
- Integrate legacy banking systems over SOAP and REST — payments, cards, limits and document processing — with the error handling that keeps the app usable when a host misbehaves.
- Caching, resilience and observability in production (Hazelcast, Resilience4j, Micrometer/Prometheus, Splunk, Dynatrace); Kubernetes deployments through Azure DevOps release pipelines across multiple environments.
- Built the team's internal tooling: environment and API-collection generators, git guard hooks, end-to-end test harnesses, an LLM-assisted agent workflow with a regression suite, and the engineering handbook.
- Mentor junior developers and run knowledge-transfer sessions on Spring Boot and React practice.

Digital HR platform — corporate group 08/2023 – 02/2025

- Built the employee-facing web platform in React + TypeScript on SharePoint Framework, from Figma prototypes to production; REST integration with the HR back end; Azure DevOps CI/CD set up together with the DevOps team.

Analyst Consultant – Full Stack · Capgemini, Turin, Italy

01/2021 – 08/2023

Media, insurance and oil & gas clients

- Advertising segmentation tool for a German pay-TV broadcaster: React front end for audience targeting, Akka-based microservices and Elasticsearch for real-time segmentation; Mocha/Chai tests, releases through UAT to production.
- Oil & gas client: Spring Boot services on Hibernate/PostgreSQL feeding Angular.js dashboards; tuned the data pipeline behind them.

Intern – Full Stack · Capgemini, Turin, Italy

10/2020 – 01/2021

Insurance client

- Migrated a legacy COBOL policy-listing system to Java Spring Boot services (Hibernate/JDBC on PostgreSQL) consumed by an Angular.js front end; kept the Maven/Git CI running for the team.

Intern – Full Stack · TogoMetrics, Turin, Italy

06/2020 – 09/2020

- React + TypeScript / Node.js MVP for an agri-tech client, built end to end in a team of four.

PROJECTS

- LLM-assisted legacy modernisation — COBOL to Spring Boot with differential-execution verification of the generated code: the referee that proves equivalence is built before the agent that writes the code. Personal project. (in progress)
- Engineering-workflow automation — For the banking programme above: LLM agents and skills wired to git hooks, an approval gate and a regression suite, so the assistant follows the team's branch and review rules instead of bypassing them. (shipped)

SKILLS

Backend	Java 17/21, Spring Boot 3, Spring Integration, Hibernate/JPA, MapStruct, Apache CXF/JAXB (SOAP), OpenAPI Generator, Kafka, Hazelcast, Resilience4j, jBPM client, Node.js, Akka Streams
Frontend & mobile	React, TypeScript, React Native, Redux Toolkit, SharePoint Framework (SPFx), Bootstrap, Angular.js (legacy)
Data	Oracle, PostgreSQL, SQL Server, MongoDB, Couchbase, Elasticsearch
Platform	Kubernetes, Docker, Jib, Istio, Azure DevOps pipelines, GitLab CI, GitHub Actions, Jenkins, WSO2 API Manager, Splunk, Dynatrace, Prometheus/Micrometer
Testing & practice	JUnit 5, Mockito, WireMock, JaCoCo, Jest, Mocha/Chai, OpenAPI-first design, Scrum, code review, Sonar
Learning now	Python, LLM APIs and tool-calling agents, evaluation harnesses

EDUCATION

BSc Computer Science (online) · University of the People, Pasadena, CA — in progress
Associate of Science, Computer Science · University of the People — 2020 – 2023
Software Development Bootcamp · Powercoders, Turin — 12/2019 – 03/2020
Computer Science coursework · Saratov State University, Russia

LANGUAGES

Arabic (native) · English (C1) · Italian (C1) · Russian (B1)