

MOHAMED BAYOR

Senior Java Developer & Solutions Architect

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Fifteen-year Java expert who designs and implements cloud-native, event-driven platforms on AWS and other leading cloud providers. Hands-on team lead, fluent in **English/French/Spanish**, who turns business problems into resilient micro-services and developer-friendly architectures.

Key Skills

Languages: **Java 11-21**, SQL, Frameworks: **Spring Boot 3**, **Helidon 4**, **Hibernate 6**, Cloud/DevOps: **AWS (Lambda, EKS, DynamoDB, SQS, S3, API Gateway, MSK, ECS, ECR, Aurora RDS,...)**, **Terraform**, **Docker**, **Kubernetes**, Data & Messaging: **Kafka**, **OpenSearch**, Testing/CI: **JUnit 5**, **Mockito**, **Cucumber**, **Gradle**, **Jenkins**, **Concourse**.

Experience

Lead Software Engineer, EPAM Canada | Mar 2025 - Present

Participated in the Oracle Health Hackathon (Q2 2025) as a lead of 8 engineers:

- Architected a hybrid rule-engine combined with **GenAI** to help validate and auto-suggest CPT/HCPCS/ICD-10 codes, NPI data, among other clinical inputs – cutting manual review time by 80%
- Delivered a **cloud-native, cost-optimized, event-driven** cloud solution POC deployed in **OCI**. Tech stack included: **OCI Functions, Queues, NoSQL tables, Redis, Compute Instances**. AI processing module was built as a **native Spring Boot executable (Spring AI + GraalVM)** that integrates **ChatGPT API** via **prompt-engineering**, yielding fast responses.

Java Developer & Academy Team Lead, Alithya Canada | Jul 2022 - Jan 2025

- Lead 3-dev squad; delivered employee-presence monitoring app adopted by 2 departments of a Quebec-based mutual insurance company.
- Introduced C4 visual modelling → reduced onboarding time 40 %.
- Modernized legacy batch applications to AWS cloud-native solutions (**AWS Lambda, S3, SQS, ECS/Fargate, DynamoDb, MSK, Java 17, SpringBoot 3**), cutting infra cost and considerably improved performance.

Lead Java Developer, Cofomo Development Inc. - Canada | May 2021 - Jun 2022

- Led a team of Java developers developing a data integration solution interfacing new modern UI clients with legacy webservices of a canadian financial service cooperative. Reviewed and improved the Pull-Request management process to prioritize Design, Quality and Security reviews. Helped improve team productivity and product testability.

Senior Developer & Consultant (Various, 2010-2021) | 2010 - 2021

- Intertec International – Costa Rica (2019-2021 & 2016-2018), Gorilla Logic - Costa Rica (2018-2019), Orange Dominicana (2011-2012), Indra Dominicana (2012-2013), Newtech S.A - D.R. (2013-2015 & 2010-2011).

Side Projects

JAPO – Java Annotation Repo (the world's first search engine dedicated to Java annotations). Runs as AWS-native SaaS while also offering as IntelliJ plugin (<https://japo.dev>).

Education

B.Sc. Computer Science – Institut Africain d'Administration et d'Études Commerciales (2006)

Certifications

Oracle Data Platform 2025 Certified Foundations Associate (June 2025)

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate (May 2025)

Oracle Cloud Infrastructure 2025 Certified Foundations Associate (March 2025)

Oracle Certified Professional: Java 17 (2022)

Spring Framework 5 (2020)

Languages

French (Native) | English (Fluent) | Spanish (Intermediate)