

MOHAMED ASHRAF BAYOR

JAVA DEVELOPER & SOFTWARE ARCHITECT

Ottawa, Ontario – Canada | 438-345-9319 | ashrafbayor@gmail.com

www.mohamedbayor.de | www.linkedin.com/in/mohamed-ashraf-bayor |

www.github.com/mohamed-ashraf-bayor

WORK EXPERIENCE

Lead Software Engineer, EPAM Canada (Since March 2025)

- Currently leading/supporting an **ongoing enterprise AI enablement rollout** across multiple repositories, implementing **GitHub Copilot** and **agent-based development workflows** with **MCP (Model Context Protocol) integrations** and **MCP server** configuration to standardize AI-assisted engineering practices across cross-functional teams (Dev, QA, BA, PO, Architect, PM, Scrum Master). Contributing to shared enablement documentation and reusable workflow patterns while deepening expertise in **prompt engineering, LLM/agent orchestration, MCP-based tool integration, and enterprise AI architecture** for repository-level delivery workflows.
- Led an 8-engineer team in the **Oracle Health Hackathon (Q2 2025)**, architecting an **AI-assisted hybrid rule engine** that auto-suggested/validated clinical inputs (CPT/HCPCS, ICD-10, NPI), reducing manual review by **~80%**, and delivered a **cloud-native, event-driven AI POC on OCI (Functions, Queues, NoSQL, Redis, Compute)** with a **native Sprint Boot AI module (Spring AI + GraalVM)** integrating the **ChatGPT API**.

Java Developer & Academy Team Lead - Alithya Canada (July 2022 – Feb 2025)

Consultant to Quebec-based Mutual Insurance Company

- Lead a team of 3 Java developers in designing and implementing internal **employee presence monitoring solutions for hybrid work compliance**. Utilized **Java 21, Spring Boot 3, Hibernate 6, Kubernetes 1.31, AWS** (EKS, Lambda, DynamoDB), Terraform, Cucumber, and Angular 17.

Consultant to US-based Aerospace Manufacturing Company

- Collaborated on integrating an on-premise Java solution with a newly developed AWS cloud application. Designed cloud solution leveraging AWS Lambda, S3, SQS, OpenSearch, API Gateway, MSK, and **Apache Kafka** (v3.3.1). Followed **Event-Driven Architecture (Pub-Sub)** for real-time data streaming and service communication.

Prior Experience (2010-2021)

- Lead Java Developer, Cofomo Development Inc, Montreal, Canada (**May 2021 - June 2022**)
- Java Developer, Intertec International, Costa Rica (**Sept 2019 - Apr 2021**)
- Sr Consultant, Gorilla Logic, Costa Rica (**Sept 2018 - May 2019**)
- Java Developer, Intertec International, Costa Rica (**Mar 2016 - Sept 2018**)
- Software Eng. III, Newtech S.A, Dominican Republic (**Jun 2013 - Sept 2015**)
- Sr Consultant, Indra Dominicana, Dominican Republic (**May 2012 - May 2013**)
- Development Eng., Orange Dominicana, Dominican Republic (**Jun 2011 - Feb 2012**)
- Software Eng. III, Newtech S.A, Dominican Republic (**Apr 2010 - Jun 2011**)

EDUCATION

Bachelor of Science in Computer Science

Institut Africain d'Administration et d'Etudes Commerciales

2003-2006

CERTIFICATIONS

- Java 17 (2022)
- Spring Framework 5 (2020)

LANGUAGES

- French: Native
- English: Fluent
- Spanish: Intermediate

SIDE PROJECTS

HALIBOTS (Hub for Applied Learning in Robotics) - <https://halibots.dev>

- **Founder & Builder** of a cloud-based robotics learning platform that combines **robotics, coding, and AI-assisted learning** to support hands-on education, remote coding challenges, real-robot interaction, and future training programs for students and developers.
- Developing the project as a long-term initiative spanning **product engineering, educational content, and platform architecture** for applied robotics learning, with an **AWS cloud-native** stack (Lambda/Java21, API Gateway, S3, DynamoDB, SQS, SES, SNS).

JAPO (Java Annotations Repo) - <https://japo.dev>

- Search engine dedicated to Java Annotations
- Cloud-native solution (AWS) and Plugin for IntelliJ IDEA.
- Tech Stack: Java 21 (backend), Java 17 (IntelliJ Plugin), Helidon 4, GraalVM, OpenSearch, DynamoDB, SQS, Lambda, EC2, Fargate ECS.

REFERENCES

2 available. Contact info provided upon request.