HELENA PEDRO

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http://www.linkedin.com/in/helena–software-engineer ・ https://myportfolio.hmpedro.com/
Work Authorization: Available for Full-time W-2 employment

PROFESSIOAL EXPERIENCE

Millennium Atlantico Bank, Luanda, AO – *Software Development Engineer*   **December 2022 – April 2025**

- Developed and maintained Spring Boot microservices integrated via Apache Kafka and Docker, processing real-time banking transactions up to AOA 3M (~$5,000) per operation.
- Developed REST APIs for foreign exchange (FX) services with encryption, deployed behind Nginx load balancers and optimized performance, supporting ~5,000 transactions per day and 10,000+ users.
- Diagnosed intermittent transaction failures in high-value ATM deposits by uncovering hidden SQL lock timeout errors, improving database exception logging, and documenting concurrency risks in long-running transactions.
- Implemented Kafka-based SMS notification services with CI/CD pipelines using Jenkins, supporting 1,000+ concurrent messages.
- Automated report generation for 134 branches using scheduled jobs, eliminating ~40 hours/week of manual reporting work.
- Improved IBM Db2 data warehouse query performance by introducing table partitioning and B-tree indexing strategies, reducing execution time from ~1 hour to 5 minutes.

AngoApp, Luanda, AO – *Software Engineer*   **September 2020 – December 2022**

- Refactored and normalized a relational database schema (12+ tables, 15+ relationships), optimizing JPA/Hibernate mappings and improving query performance and maintainability.
- Improved data analytics performance and system availability by implementing stored procedures, B-tree indexes, and configuring Nginx load balancing with health checks.
- Simplified the domain and persistence layers by migrating from bidirectional to unidirectional entity mappings.

CasaCon, Luanda, AO – *Software Engineer*   **January 2019 – September 2020**

- Built data synchronization pipelines between SQL databases, Odoo ERP, and Excel, ensuring consistent and accurate business data.
- Automated Odoo ERP workflows using Python, reducing manual effort and enforcing data integrity across business operations.
- Developed RESTful integrations and dashboards to track business performance across physical stores and online operations.

SELECTED PROJECTS

Resume Feedback Platform (Personal Project) – *GitHub:* https://github.com/helenapedro/resume-feedback-platform

Java, Spring Boot, JPA/Hibernate, MySQL, MongoDB, Redis, Kafka, Docker, React, TypeScript

- Architected a modular, event-driven backend with clear service boundaries to support scalable AI workflows and eventual consistency.
- Built a secure resume lifecycle API (JWT, immutable versioning, owner-only access, SHA-256–hashed share link, audit logs, Redis rate limiting) to protect user data and control public access.
- Implemented an asynchronous AI feedback pipeline using Kafka, with a dedicated worker persisting feedback in MongoDB and tracking job state in MySQL.
- Containerized local infrastructure with Docker and Docker Compose enabling reproducible setups and faster onboarding.

EDUCATION

Maharishi International University (MIU), Fairfield, IA

Master of Science in Computer Science – GPA: 3.86/4.00   *April* **2026**

Selected Courses: Software Engineering ・ Enterprise Architecture・ Software Architecture

SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript.
Backend & Enterprise: Spring Boot, JPA/Hibernate, REST APIs, Node.js.
Databases & In-Memory Storage: MySQL, IBM Db2, MongoDB, Redis (Caching & Data Structures).
Messaging & Integration: Apache Kafka, Redis Pub/Sub, Event-driven architectures.
DevOps & CI/CD: Docker, Jenkins, Maven, Git, Prometheus.
Cloud & Infrastructure: AWS (EC2, Lambda, S3, RDS), Cloud-ready architectures.
Architecture & Practices: Enterprise Architecture, SDLC, Agile/Scrum, TDD (JUnit/Mockito), Microservices Architecture.
Trilingual Communicator: English (Fluent), Portuguese (Fluent), Spanish (Fluent)