

Luis Henrique Jung

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PROFESSIONAL SUMMARY

Full Stack Engineer with 4+ years of experience building scalable backend systems, modern web/mobile applications, and applied AI solutions. Strong expertise in Java (Spring Boot), Python (FastAPI), Flutter, and Angular. Built production biometric systems serving 1,000+ users with 600ms face recognition, and AI-powered risk management tools using LangChain agents and custom MCP servers. Experienced across the full development lifecycle -- from system architecture and REST API design to CI/CD automation and production deployment.

CORE COMPETENCIES

Full Stack Development

AI Agent Development

Computer Vision

REST API Design

System Architecture

LLM Integration

CI/CD & DevOps

Cross-Platform Mobile

WORK EXPERIENCE

RSData 2023 -- Present

Full Stack Engineer

- Built and maintained full-stack applications using **Spring Boot**, **Angular**, **NestJS**, **Python**, and **Flutter** across multiple client projects
- Developed a **biometric PPE delivery platform** serving 1,000+ users -- face recognition (OpenCV + Qdrant + human.js) achieving **600ms processing**, face-based employee search, and fingerprint auth on Android native
- Built an **AI-powered risk management app** (Flutter) with a LangChain agent (Gemini Flash Pro), custom MCP server, and conversational chat UI for workplace safety recommendations
- Architected RESTful APIs with **Spring Boot** and **SQL Server**, focused on performance, scalability, and clean separation of concerns
- Implemented **CI/CD pipelines** using GitLab, Jenkins, and SonarQube, enforcing code quality and reducing manual deployment
- Contributed to system architecture decisions, automated testing strategies, and continuous delivery practices

Smart Keeping (Personal Project) 2022 -- 2023

Mobile Developer (Flutter)

- Developed a cross-platform mobile application using **Flutter** with modular, layered architecture
- Implemented reactive state management using **MobX**, ensuring clean data flow and maintainable components
- Designed scalable mobile architecture patterns for long-term maintainability

OM Tecnologia para Negocios 2022

Junior Software Developer

- Developed mobile applications using **Android (Java)** and **Flutter**
- Contributed to UI implementation, application logic, and feature delivery across client projects

PROJECTS

Biometric PPE Delivery Platform Production

Fullstack biometric verification system for fast PPE delivery in industrial environments. Face recognition (600ms, OpenCV + Qdrant vector search) with face-based employee search, plus fingerprint authentication across mobile (Android native) and web (Angular + human.js). Core API on Spring Boot + SQL Server, face engine on FastAPI.

Android Native, Angular, Spring Boot, FastAPI, OpenCV, human.js, Qdrant, SQL Server

AI-Powered Risk Management Production

Flutter app for workplace risk management with an integrated AI agent (Gemini Flash Pro via LangChain, monitored with LangSmith). Built a custom MCP server giving the agent full app context. Chat UI with contextual action buttons for one-tap risk recommendations from activity descriptions and workplace images. Core API on Spring Boot + SQL Server.

Flutter, Dart, Spring Boot, SQL Server, FastAPI, LangChain, LangSmith, Gemini, MCP

Stock Management SaaS (MVP)

Designed and implemented full architecture for a small-business inventory management platform. Built from MVP to scalable solution.

Angular, Spring Boot, MySQL

EDUCATION

Postgraduate in Software Engineering for Mobile Devices -- UNINTER

BSc in Analysis and Systems Development -- UNIVATES

SKILLS

Backend: Java (Spring Boot), Node.js (NestJS), Python (FastAPI), Microservices, Kafka **Frontend:** Angular, TypeScript, JavaScript
Mobile: Flutter, Dart, Android (Java) **AI/ML:** LangChain, LangGraph, LangSmith, MCP, RAG, OpenCV, Qdrant, LLM Integration, AI Agents
Databases: PostgreSQL, SQL Server, MySQL, JPQL/HQL **DevOps:** Docker, Kubernetes, GitLab CI/CD, Jenkins, Maven
Testing: JUnit, Mockito, AssertJ **Observability:** Prometheus, Grafana **Languages:** English (Intermediate), Portuguese (Native)