

Leonardo Colman Lopes

Senior Backend Engineer | Kotlin & JVM | Kotest Core Maintainer

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SUMMARY

Senior backend engineer, 8+ years on the JVM. At PagSeguro I replaced a nightly batch job in a monolith with a Kafka pipeline covering 2M+ customers; at Guiabolso I led and owned the backend for real-time credit-bureau alerts across 12M+ users. **Core maintainer of Kotest** (4.8k stars), where I own the assertions module, and a contributor to the **Koin** ecosystem at Kotzilla. Kotlin, Spring Boot, Ktor, Kafka and PostgreSQL on AWS; shipped remotely for teams in the US, Canada and France.

SKILLS

Languages	Kotlin, Java, Scala, SQL, JavaScript
Backend	Spring Boot, Ktor, Koin, REST APIs, Microservices
Data & Streaming	Apache Kafka, Apache Spark, PostgreSQL, Amazon EMR, Event-Driven Architecture
Testing & Quality	Kotest, JUnit, MockK, TDD, BDD / Cucumber, Mutation Testing
Cloud & Infrastructure	AWS (Lambda, ECS, EC2, ELB, S3, Glacier, EMR), Docker, Kubernetes, CI/CD, GitHub Actions, Linux
Practices	Technical Leadership, Code Review, Agile / Scrum, Technical Writing, Mentoring

EXPERIENCE

Colman Software (own consultancy)

Remote

Independent Software Consultant

Sep 2021 - Present

- Contract backend/full-stack engineering for e-commerce and mobile clients (NDA): Kotlin/JVM services, PostgreSQL, REST APIs, CI/CD and cloud deployment. Backends I operate support e-commerce processing **R\$100k+/month**.

Confidential (AI Lab)

Remote

Code Review Specialist - AI Model Training

Aug 2025 - Jan 2026

- Reviewed code and pull requests to train and evaluate large language models, annotating correctness and maintainability and calibrating standards across a distributed reviewer pool.

Baeldung

Remote (Bulgaria)

Technical Writer (JVM)

Nov 2022 - Present

- Published **60+ technical articles** on Kotlin, Java and the JVM for one of the largest JVM publications.

Clutch

Remote (United States)

Software Engineer

Sep 2024 - May 2025

Fintech platform for credit unions (auto lending).

- Owned the **vehicle-credit lending endpoint** at the core of my team's area, end-to-end from requirements to production.
- Replaced manual QA with automated test coverage** on flows that had none.

Kotzilla

Remote (France)

Full-Stack Engineer (Koin ecosystem)

Sep 2023 - Jun 2024

*The company behind **Koin**, the DI framework used across the Kotlin/Android ecosystem.*

- Contributed to the **Koin framework itself** and to Cloud-Inject, its performance-profiling platform (backend + web), through the platform's growth to **100+ registered companies**.

Triton Digital

Remote (Canada)

Software Engineer

Sep 2021 - Mar 2023

Digital audio and streaming infrastructure for broadcasters across the US and Canada.

- Built **ad campaign configuration** features (campaign setup, audio creative management, playout scheduling) used by broadcasters across North America; still in production.
- Introduced CI/CD pipelines where none existed**, plus unit, integration, smoke and acceptance test suites.

Guiabolso

Senior Software Engineer / Technical Lead

Sao Paulo, Brazil - Hybrid

Oct 2019 - Jul 2021

Brazil's largest personal-finance app at the time. Promoted to Senior within six months.

- **Technical lead** on a flagship 2020 project: real-time alerts notifying users the moment a debt appeared on their **BoaVista credit bureau** file.
- Owned the entire backend plus the app-side integration, designed to scale to Guiabolso's full base of **12M+ users** - which it did.

PagSeguro UOL

Software Engineer

Sao Paulo, Brazil - Hybrid

Jan 2017 - Oct 2019

One of Brazil's largest payment processors. Joined as an intern, hired as an engineer.

- **Introduced Apache Kafka to a team with no event-streaming infrastructure:** replaced a nightly batch job inside a monolith with an event-driven pipeline, taking data freshness **from once a day to near real time**.
- Built data pipelines covering **2M+ customers** with Kafka and Apache Spark on Amazon EMR; introduced BDD (Cucumber) to the team.

Minecraft Brasil

Java Developer

Remote (Brazil)

2014 - 2016

- Wrote Minecraft mods and server plugins in Java (Bukkit) as a teenager - where the JVM habit started.

OPEN SOURCE & PROJECTS

Kotest

2018 - Present

Core Maintainer - Kotlin Testing Framework

- Core maintainer (one of ~8) of the leading Kotlin testing framework - **4.8k GitHub stars**, used in production worldwide. **Owner of the assertions module**, its most widely used component.
- Review community contributions, shape API design, maintain multiplatform releases.

Petals

2021 - Present

Android App - Habit Tracking

Open-source habit-tracking Android app (Kotlin, Jetpack Compose).

Open-Source Libraries

Kotlin / JVM

Published libraries for Brazilian document validation (CPF, CNPJ), password generation and Kotlin extensions.

EDUCATION

University of Sao Paulo (USP)

2021 - 2022

MSc (coursework completed) - Computer Science - Artificial Intelligence

Coursework completed; thesis not defended. Research on classification of unstructured text data.

University of Sao Paulo (USP)

2016 - 2020

BSc - Information Systems

Student Representative (2017-2020); Director of Technology, Student Association.

ADDITIONAL

Speaking

Guest speaker at the University of Sao Paulo on software testability, mutation testing, Kotest and clean code.

Volunteering - Instituto Se Mudando

Jul 2021 - Present

Own the full technology stack - hosting, infrastructure and internal tooling - as a volunteer.

Languages

Portuguese (Native), English (Fluent (Cambridge C1)), Spanish (Intermediate), French (Intermediate)