

Luis German Rodriguez Tanamachi

Senior Backend Engineer | Fintech · Healthcare · E-Commerce

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Professional Summary

Senior Backend Engineer with 10+ years of experience designing and operating mission-critical backend systems in fintech and online trading platforms, including brokerage, loan trading, and real-time financial transaction processing. Proven expertise in building scalable, high-availability, event-driven microservices using Java and Spring Boot, supporting complex trade lifecycles, financial workflows, and multi-currency processing under strict reliability and regulatory constraints. Extensive experience developing middle- and back-office systems, integrating with external financial vendors, and maintaining API-driven platforms consumed by internal tools, analytics systems, and downstream partners. Strong background in distributed systems, financial data mod

Professional Experience

Octaura Inc. — New York, NY

Senior Backend Engineer (Fintech Infrastructure) | Apr 2024 – Oct 2025

- Designed and implemented mission-critical backend services for a financial trading platform using **Java**, **Spring Boot**, **Kafka**, and **PostgreSQL**, supporting core brokerage-style workflows including asset trading, lifecycle events, and downstream settlement processing.
- Built scalable, event-driven microservices handling thousands of financial transactions and domain events per day, ensuring correctness, ordering, idempotency, and fault tolerance in distributed environments.
- Developed and maintained API-driven middle- and back-office systems consumed by internal tools and external integrations, enabling operational workflows, reporting, and regulatory-aligned data access.
- Collaborated closely with product, platform, and data teams to evolve a shared core framework, enabling extensibility across new financial instruments and workflow variations.
- Owned services end-to-end, from architecture and implementation through deployment, monitoring, on-call support, and post-incident remediation in production environments.
- Improved system observability through structured logging, tracing, and metrics, reducing time-to-diagnosis during production incidents impacting trading flows.

- Acted as a senior escalation point during incidents, coordinating debugging efforts across multiple service layers and leading post-mortem analysis.

H1 Inc. — New York, NY

Senior Backend Engineer | Sep 2021 – Mar 2024

- Architected and maintained large-scale Java-based backend systems processing millions of financial and domain records, enabling analytics, compliance workflows, and downstream integrations.
- Integrated AI-assisted and rule-based enrichment pipelines into backend APIs, improving data accuracy and reducing manual reconciliation efforts by approximately **20%**.
- Collaborated with data, analytics, and product teams to design APIs aligned with complex financial data models and evolving regulatory requirements.
- Built internal tooling for batch validation, schema evolution, and audit-friendly data processing, improving system reliability and operational confidence.
- Implemented containerized services deployed on **Kubernetes**, working closely with DevOps teams to improve CI/CD reliability and deployment safety.
- Regularly debugged production issues across service boundaries, contributing to blameless post-mortems and long-term architectural improvements.
- Mentored engineers on financial system design, API consistency, and production-readiness best practices.

Jeeves Inc. — Remote / Global

Backend Engineer (Fintech Platform) | Jul 2018 – Aug 2021

- Developed secure, multi-region backend services using **Java**, **Spring Boot**, and **PostgreSQL** to support real-time financial transactions, reconciliation, and settlement-style workflows.
- Designed systems with careful consideration for transactional integrity, data consistency, and failure recovery in distributed financial environments.
- Implemented access control, audit logging, and compliance-oriented safeguards to support regulated financial operations.
- Worked closely with mobile and web teams to co-design APIs for trading-related workflows, ensuring low latency and predictable behavior.
- Partnered with DevOps to containerize services and automate deployments using **AWS** and CI/CD pipelines.
- Introduced observability tooling to reduce mean time to recovery for incidents affecting transaction processing.

Ve Global — London, UK

Backend Engineer (E-Commerce & AdTech) | Nov 2014 – Jun 2018

- Built and enhanced backend services aggregating high-volume event data to support real-time analytics and operational decision-making.
- Contributed to the migration from monolithic and on-premise systems to cloud-based, service-oriented architectures on **AWS**.

- Improved performance and scalability through clearer service boundaries and API-first design approaches.
- Collaborated with globally distributed teams, aligning asynchronously across time zones to deliver shared backend capabilities.
- Supported production systems through debugging, monitoring, and incremental reliability improvements.

Technical Skills

Languages: **Java**, Python, JavaScript, TypeScript, C#

Backend & APIs: **Spring Boot**, REST APIs, **gRPC**, GraphQL, Service-Oriented Architecture

Event & Messaging: **Kafka**, Event-Driven Architecture, Asynchronous Processing

Financial Systems: Trading Platforms, Brokerage Workflows, Transaction Processing, Settlement Concepts

Databases: **PostgreSQL**, MySQL, MongoDB, SQL Server, Financial Data Modeling

Distributed Systems: High Availability, Fault Tolerance, Idempotency, Ordering Guarantees

Cloud & Infrastructure: **AWS**, Docker, **Kubernetes**

DevOps & CI/CD: **GitHub Actions**, Jenkins, Automated Deployments

Observability & Ops: Logging, Metrics, Distributed Tracing, Incident Response

Architecture & Design: Domain-Driven Design Concepts, Event-Driven Design

Collaboration & Leadership: Global Teams, API Co-Design, Incident Command, Mentorship

Education

Bachelor of Science in Computer Science

Georgia Institute of Technology (Georgia Tech) | Atlanta, GA | 2009 – 2014