

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, building, and operating scalable, event-driven backend systems that support high-throughput, user-facing growth platforms across fintech, healthcare, and e-commerce domains. Proven expertise in Java and Spring Boot microservices, real-time event processing, API-driven architectures, and data-centric systems enabling experimentation, personalization, and measurable business impact. Led backend initiatives supporting trading, onboarding, data ingestion, and engagement workflows processing thousands to millions of events per day, with a strong focus on reliability, performance, and observability. Extensive experience collaborating cross-functionally with Product, Data, Analytics, Marketing, and Mobile teams to translate growth hypotheses into production-ready backend capabilities. Known for driving platform generalization, reusable infrastructure, and CI/CD automation while mentoring engineers and maintaining high operational standards in production environments.

Professional Experience

Octaura Inc. — New York, NY

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

- Designed and implemented high-throughput backend microservices using Java, Spring Boot, Kafka, and PostgreSQL to support core financial workflows, enabling real-time event processing and downstream analytics critical for user engagement and retention initiatives.
- Built and maintained event-driven architectures processing thousands of domain events per day with strong guarantees around ordering, idempotency, and fault tolerance, supporting experimentation and data-driven decision-making across multiple product surfaces.
- Defined and evolved REST API contracts consumed by internal services and external clients, improving integration reliability, reducing cross-team friction, and enabling faster iteration on growth-related features.
- Led database schema evolution and versioning using Liquibase, ensuring consistent deployments across development, staging, and production while minimizing risk during rapid feature experimentation.
- Improved system performance and reliability by introducing structured logging, distributed tracing, and targeted profiling, reducing latency along critical user-facing execution paths.
- Strengthened CI/CD pipelines with GitHub Actions, increasing automated test coverage and deployment confidence while maintaining rapid delivery velocity.

- Acted as a senior technical partner to product and data stakeholders, translating business hypotheses into scalable backend solutions and reusable platform components.

H1 Inc. — New York, NY

Senior Backend Engineer | Sep 2021 – Mar 2024

- Architected and maintained large-scale, distributed data ingestion and processing services using Java, Spring Boot, and PostgreSQL, handling millions of healthcare records to power analytics, personalization, and downstream user insights.
- Integrated AI-assisted entity matching and enrichment capabilities into backend APIs, improving data accuracy and reducing manual operational effort by approximately 20%.
- Collaborated closely with Product, Data Science, and Analytics teams to align backend services with experimentation needs, reporting pipelines, and growth-oriented metrics.
- Built internal automation tools for batch validation, schema tracking, and data quality enforcement, cutting QA and feedback cycles by 50% and improving confidence in production releases.
- Implemented and operated CI/CD pipelines using Jenkins, Docker, and Kubernetes, ensuring reliable deployments under continuous delivery constraints.
- Contributed to the design of a scalable internal Knowledge Graph platform, enabling reusable backend primitives and accelerating feature development across teams.
- Mentored engineers on service design, testing strategies, and debugging practices in complex distributed systems.

Jeeves Inc. — Remote / Global

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

- Developed secure, multi-region backend services using Spring Boot, PostgreSQL, and AWS to support real-time financial transactions, cross-border payments, and currency exchange workflows.
- Designed transaction monitoring, reconciliation, and settlement services operating under strict consistency and availability requirements while supporting user-facing growth initiatives.
- Implemented role-based access control and audit-ready security mechanisms to ensure compliance and trust in high-volume financial systems.
- Introduced observability tooling including Prometheus and Sentry, improving incident detection and reducing mean time to recovery for production issues.
- Partnered with DevOps teams to containerize services and enhance CI/CD workflows using GitHub Actions and AWS ECS, improving deployment reliability.
- Standardized REST and GraphQL API patterns and documentation, accelerating integration with mobile, web, and partner platforms.

Ve Global — London, UK

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

- Enhanced backend analytics and reporting APIs aggregating distributed event streams to support real-time advertising insights and performance measurement.
- Supported migration of on-premise services to AWS using S3 and Lambda, improving scalability, fault tolerance, and operational cost efficiency.

- Contributed to the decomposition of a Node.js monolith into an API-first architecture, enabling faster experimentation and independent service deployment.
- Collaborated with cross-functional product and analytics teams to deliver backend capabilities aligned with user engagement and conversion metrics.
- Supported CI/CD initiatives using GitHub and Jenkins, improving deployment consistency and developer productivity.

Technical Skills

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

Frameworks & APIs: Spring Boot, REST APIs, GraphQL, gRPC, Node.js, NestJS

Event & Messaging: Kafka, Event-Driven Architecture, Asynchronous Processing, Background Jobs

Databases: PostgreSQL, MySQL, MongoDB, SQL Server, Data Modeling, Schema Evolution

Cloud & Infrastructure: AWS (EC2, S3, Lambda, EKS), Docker, Kubernetes

DevOps & CI/CD: Git, GitHub Actions, Jenkins, Automated Testing Pipelines

Testing & Quality: TDD, JUnit, Integration Testing, Production Debugging

Observability: Structured Logging, Distributed Tracing, Metrics, Profiling

Collaboration & Growth: Cross-Functional Delivery, Experiment Enablement, API Reusability, Mentorship

Education

Bachelor of Science in Computer Science

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