

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 high-performance, scalable SaaS and microservice platforms across fintech, healthcare, and e-commerce domains. Extensive hands-on experience with **Python**, **Java**, and relational databases (**PostgreSQL, MySQL**), developing robust REST APIs, data pipelines, and event-driven backend services. Proven ability to deliver features independently, mentor engineers, and drive architectural improvements while ensuring high code quality through unit testing, code reviews, and CI/CD practices. Adept at translating ambiguous business goals into clearly defined technical tasks, collaborating closely with product and cross-functional teams to deliver reliable, production-ready systems.

Professional Experience

Octaura Inc. — New York, NY

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

- Designed and implemented high-throughput microservices using **Python** and **Java**, supporting trading workflows with complex data processing and relational database operations in **PostgreSQL**, ensuring low-latency and fault-tolerant service delivery.
- Independently owned feature delivery from scoping and design to production deployment, writing automated unit and integration tests to ensure maintainability and reliability.
- Collaborated with product managers and engineering teams to break down ambiguous requirements into clearly defined tasks, grooming tickets and organizing sprint deliverables.
- Implemented and maintained REST APIs and data services consumed by internal dashboards and downstream applications, optimizing performance and scalability.
- Improved CI/CD pipelines with **Docker**, **GitHub Actions**, and automated testing, increasing release reliability and accelerating deployment cadence.
- Mentored junior engineers on backend design, testing best practices, and database optimizations, improving team efficiency and code quality.

H1 Inc. — New York, NY

Senior Backend Engineer | Sep 2021 – Mar 2024

- Architected and maintained event-driven backend systems handling millions of healthcare and financial records per day, using **Python** and PostgreSQL, ensuring data integrity and reliability across distributed services.
- Collaborated with fullstack and frontend teams to ensure APIs and data pipelines met performance, accuracy, and usability requirements.
- Led initiatives to identify technical debt and implement improvements, enhancing maintainability and system scalability.
- Designed and implemented automated tests, CI/CD pipelines, and deployment workflows to maintain high-quality production code.
- Mentored engineers on backend development, data modeling, and best practices for API and microservice design.

Jeeves Inc. — Remote / Global

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

- Developed scalable backend services and REST APIs supporting multi-region financial transactions and real-time reconciliation, emphasizing correctness, performance, and low-latency delivery.
- Worked with PostgreSQL for high-volume data storage, performing schema design, indexing, and optimization for efficient querying and event processing.
- Partnered with frontend and analytics teams to integrate backend data pipelines with dashboards and monitoring systems.
- Participated in CI/CD pipeline automation, Docker-based deployments, and testing workflows, improving release quality and reliability.
- Provided mentorship to junior engineers on production-ready coding standards, testing, and operational best practices.

Ve Global — London, UK

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

- Contributed to migration from monolithic to microservice architectures, enhancing scalability, modularity, and team efficiency.
- Built and optimized APIs consumed by internal dashboards and reporting tools, ensuring data integrity and responsiveness.
- Participated in incident response and root cause analysis to improve system reliability and uptime.
- Enhanced CI/CD pipelines and automated testing frameworks to ensure consistent deployment quality.
- Collaborated asynchronously with distributed teams to maintain alignment on architecture and coding standards.

Technical Skills

Languages: Python, Java, SQL, PostgreSQL, MySQL, JavaScript, TypeScript

Frameworks & Platforms: Spring Boot, Flask, REST APIs, Microservices, Event-Driven Architecture

Cloud & Infrastructure: AWS (EC2, S3, Lambda, EKS), Docker, Kubernetes, Cloud-Native SaaS Patterns

DevOps & CI/CD: GitHub Actions, Jenkins, Docker, Containerized Deployments, Unit Testing, TDD

Databases & Data: PostgreSQL, MySQL, Redis, Data Modeling, Schema Design, Migration

Monitoring & Reliability: Observability, Logging, Distributed Tracing, Incident Management

Collaboration & Methodology: Agile/SCRUM, Feature Ownership, Mentorship, Cross-Functional Teamwork

Soft Skills: Analytical Thinking, Problem Solving, Strategic Initiative, Communication, Leadership

Education

Bachelor of Science in Computer Science

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