Luis German Rodriguez Tanamachi

Senior Backend Engineer | Fintech · Healthcare · E-Commerce

Culiacán, Sinaloa, Mexico | Germantanamachi098@outlook.com | +52 55 2446 9678 |
https://www.linkedin.com/in/luis-german-rodriguez-tanamachi-000a42390/

Professional Summary

Principal-level Backend Software Engineer with 10+ years of experience designing, building, and operating large-scale, mission-critical enterprise systems across fintech, healthcare, and e-commerce domains. Proven expertise in architecting RESTful APIs, microservice-based and event-driven platforms, and cloud-native services using Python, Java, and modern CI/CD pipelines. Extensive experience delivering systems end-to-end—from technical design and implementation through launch, monitoring, and iterative improvement—supporting millions of records and high-throughput workflows with strict reliability, availability, and performance requirements. Recognized for independent ownership of complex initiatives, proactive production problem resolution, and reducing technical debt through disciplined code reviews, automated testing, and architectural improvements. Strong collaborator with Product Managers, architects, and cross-functional teams, and a trusted mentor who consistently elevates engineering quality, delivery velocity, and system stability.

Professional Experience

Octaura Inc. — New York, NY

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

• Designed and maintained mission-critical backend services supporting complex financial workflows, implementing scalable RESTful APIs and distributed microservices using **Python**, **Java**, and **PostgreSQL**, ensuring low-latency performance, high availability, and fault tolerance under production workloads.
• Independently owned features through their full lifecycle—from requirements analysis and logical design through implementation, deployment, monitoring, and iterative improvement—consistently delivering production-ready systems with minimal supervision.
• Analyzed and resolved high-impact production issues by assessing risk, identifying root causes, and implementing durable fixes, improving system stability, reducing incident recurrence, and strengthening operational resilience.
• Collaborated closely with Product Managers and cross-functional engineering teams to translate ambiguous business goals into clearly scoped technical solutions aligned with strategic platform direction.

• Improved deployment reliability and delivery velocity by enhancing **CI/CD pipelines** with **GitHub Actions**, **Docker**, and automated test coverage, reducing manual intervention and deployment risk.
• Conducted in-depth code reviews to identify architectural issues, reduce technical debt, and enforce backend best practices, directly raising code quality and long-term maintainability.
• Mentored junior engineers on backend design principles, testing strategies, and database optimization techniques, contributing to measurable improvements in team productivity and engineering standards.

H1 Inc. — New York, NY

Senior Backend Engineer | Sep 2021 – Mar 2024

• Architected and evolved large-scale, event-driven backend systems processing millions of records per day, leveraging **Python**, **PostgreSQL**, and distributed service patterns to ensure data integrity, reliability, and horizontal scalability.
• Designed and implemented RESTful services and data pipelines consumed by multiple internal and external systems, aligning API contracts with performance, security, and usability requirements.
• Led technical initiatives to identify and remediate systemic technical debt, improving service stability, reducing operational overhead, and enabling faster feature delivery.
• Championed quality and availability by implementing comprehensive automated testing strategies and strengthening CI/CD workflows, ensuring consistent, repeatable, and secure releases.
• Partnered with product, frontend, and platform teams to deliver end-to-end solutions, contributing to a strong culture of ownership, reliability, and continuous improvement.
• Provided ongoing mentorship to engineers, reinforcing scalable system design principles, effective code review practices, and production-readiness standards.

Jeeves Inc. — Remote / Global

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

• Developed scalable backend services and **RESTful APIs** supporting multi-region financial platforms, focusing on correctness, transactional integrity, and performance under high-volume workloads.
• Designed and optimized **PostgreSQL** schemas, indexes, and queries to support complex business processes and efficient data access patterns at scale.
• Collaborated with analytics and frontend teams to integrate backend systems with dashboards and reporting tools, enabling real-time visibility into system behavior and business metrics.
• Contributed to **CI/CD automation**, containerized deployments with **Docker**, and testing pipelines, improving deployment reliability and reducing release cycle times.
• Participated in architectural discussions around service decomposition and scalability, applying microservice principles to support future growth and evolving business needs.
• Supported and mentored junior engineers on production-grade backend development, emphasizing testing, operational awareness, and maintainable code design.

Ve Global — London, UK
Backend Engineer (E-Commerce & AdTech) | Nov 2014 – Jun 2018

• Contributed to the evolution from monolithic systems to microservice-oriented architectures, improving scalability, deployment flexibility, and team autonomy.
• Built and optimized backend APIs powering internal tools and reporting systems, ensuring consistent performance, data accuracy, and system reliability.
• Actively participated in incident response and root cause analysis, implementing corrective actions that improved uptime, resilience, and overall system stability.
• Strengthened automated testing and **CI/CD pipelines**, helping establish consistent quality gates and repeatable deployment processes.
• Collaborated with globally distributed engineering teams, maintaining alignment on architectural standards, coding best practices, and delivery expectations.

Technical Skills

Languages: Python (advanced, 10+ yrs), Java (advanced), JavaScript, SQL

Backend & Architecture: RESTful APIs, Microservices, Event-Driven Architecture, Serverless Design Principles, Scalable System Design

Databases: PostgreSQL, MySQL, Schema Design, Data Modeling, Performance Optimization

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

CI/CD & DevOps: GitHub Actions, Jenkins, Automated Testing, CI/CD Pipeline Design, Containerized Deployments

Quality & Reliability: Unit Testing, Integration Testing, Code Reviews, Observability, Logging, Incident Management

Collaboration & Leadership: Technical Ownership, Mentorship, Cross-Functional Collaboration, Agile/SCRUM, Product Partnership

Education

Bachelor of Science in Computer Science

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