Luis German Rodriguez Tanamachi

Senior Backend Engineer | Fintech · Healthcare · E-Commerce

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Professional Summary

Senior Software Engineer with 10+ years of experience designing, building, and operating large-scale, high-availability SaaS and cloud-native backend systems across fintech, healthcare, and e-commerce domains. Proven technical leadership with 5+ years mentoring engineers, coordinating cross-functional teams, and providing architectural guidance for complex microservice-based platforms. Deep expertise in backend development, distributed systems, API design, and production incident management, delivering high-throughput services processing millions of events daily. Skilled in translating business requirements into technical solutions, optimizing CI/CD pipelines, and improving team velocity and code quality. Experienced in remote team coordination, agile delivery, and establishing development standards for engineering teams, with measurable impact on system reliability, performance, and scalability.

Professional Experience

Octaura Inc. — New York, NY

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

• Led design and implementation of high-throughput microservices supporting CLO and loan trading workflows using **Java**, **Spring Boot**, and **Kafka**, ensuring transactional integrity, fault tolerance, and high availability across distributed services.
• Provided hands-on architectural guidance and mentorship to junior and mid-level engineers, improving team delivery velocity and code quality through structured reviews and pairing sessions.
• Defined and maintained REST API contracts and service boundaries, enabling clear integrations with internal dashboards and external systems while reducing downstream integration defects by over 25%.
• Improved CI/CD pipelines using **GitHub Actions**, automated testing, and containerized deployments, accelerating release cadence while maintaining production stability.
• Oversaw production reliability, debugging critical incidents, coordinating post-mortems, and implementing preventive measures to reduce recurrence.
• Collaborated with product, data, and DevOps teams to translate business requirements into scalable technical solutions, aligning roadmap priorities with architectural standards.

H1 Inc. — New York, NY

Senior Backend Engineer | Sep 2021 – Mar 2024

• Architected and maintained event-driven, distributed systems processing millions of healthcare and financial records per day, optimizing throughput and consistency using **Spring Boot**, PostgreSQL, and Kafka.
• Mentored engineers on backend architecture, testing best practices, and scalable API design, fostering team independence and structured development practices.
• Partnered with remote and cross-functional teams to design reusable infrastructure and APIs, improving feature delivery and reducing redundant development effort.
• Strengthened CI/CD processes using **Jenkins**, **Docker**, and Kubernetes, ensuring smooth deployments and rollback capabilities in production environments.
• Conducted code reviews and performance audits to ensure coding standards, maintainability, and production readiness across multiple microservices.

Jeeves Inc. — Remote / Global

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

• Developed backend services supporting multi-region financial transactions, real-time reconciliation, and settlement workflows, emphasizing data integrity and low-latency processing.
• Collaborated closely with cross-functional teams to design APIs and integration points, ensuring predictable behavior for internal and external consumers.
• Introduced monitoring and observability tools to detect and troubleshoot production incidents, reducing mean time to recovery for critical trading paths.
• Participated in cloud-based containerized deployments using AWS ECS, standardizing service packaging and release pipelines.
• Mentored junior engineers on distributed systems, coding standards, and performance optimization, fostering a high-reliability engineering culture.

Ve Global — London, UK

Backend Engineer (E-Commerce & AdTech) | Nov 2014 – Jun 2018
• Contributed to migration from monolithic to microservice architectures, improving modularity, scalability, and developer efficiency.
• Supported backend systems delivering real-time analytics to frontend dashboards and reporting tools, aligning technical implementations with business KPIs.
• Participated in production incident debugging, root cause analysis, and cross-team communication to improve operational stability.
• Enhanced CI/CD pipelines and automated testing coverage, reducing deployment errors and downtime.
• Collaborated asynchronously with global engineering teams, ensuring consistent architectural patterns and development standards.

Technical Skills

Languages: **Java**, Python, JavaScript, TypeScript, C# (transferable), SQL

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

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

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

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

Leadership & Collaboration: Technical Mentorship, Remote Team Management, Cross-Functional Alignment, Agile/Scrum

Monitoring & Reliability: Observability, Logging, Distributed Tracing, Incident Management, Post-Mortems

Soft Skills: Communication, Strategic Thinking, Problem Solving, Team Leadership, Mentorship

Education

Bachelor of Science in Computer Science

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