

Luis German Rodriguez Tanamachi

Senior Full Stack Engineer | Fintech · Healthcare · E-Commerce

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Professional Summary

Senior Software Engineer with 10+ years of experience designing, implementing, and operating full-stack and backend systems in fintech, healthcare, and e-commerce domains, delivering high-throughput, scalable, and reliable services. Proven track record in **technical leadership**, mentoring engineers, reducing technical debt, and driving architectural simplification. Extensive experience in **microservices, event-driven architectures, and cloud-native systems (AWS, Docker, Kubernetes)**, with hands-on exposure to **frontend integration using React and TypeScript**. Skilled at translating business requirements into secure, production-ready code, establishing CI/CD pipelines, and driving cross-functional collaboration with product and data teams. Recognized for solving complex technical challenges, improving system performance, and fostering high-performing engineering teams.

Professional Experience

Octaura Inc. — New York, NY

Senior Full Stack 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**, **Kafka**, and **PostgreSQL**, ensuring low-latency, fault-tolerant, and highly available services.
- Provided mentorship and architectural guidance to junior and mid-level engineers, improving code quality, delivery velocity, and system reliability across multiple services.
- Collaborated with frontend teams on **React / TypeScript dashboards** for operational monitoring, ensuring reliable integration and real-time data visualization.
- Designed CI/CD pipelines using **GitHub Actions** and Docker/Kubernetes, enabling automated testing, deployment, and rollback procedures.
- Led cross-functional problem-solving initiatives, debugging production incidents spanning frontend, backend, and infrastructure layers, reducing mean time to recovery by 30%.
- Identified and mitigated technical debt, refactoring critical services to improve maintainability, performance, and scalability.

H1 Inc. — New York, NY

Senior Full Stack Engineer | Sep 2021 – Mar 2024

- Architected distributed, event-driven microservices handling millions of records daily, optimizing throughput and fault tolerance using **Spring Boot**, PostgreSQL, and Kafka.
- Mentored engineers on backend architecture, testing, and API best practices, improving team efficiency and reducing defect rates.
- Partnered with frontend teams to expose structured APIs and data layers consumed by React dashboards, ensuring consistency and performance.
- Improved CI/CD processes using **Jenkins**, Docker, and Kubernetes, automating deployment pipelines and enhancing release reliability.
- Conducted code reviews, technical design sessions, and cross-team alignment to simplify complex systems and reduce operational complexity.
- Collaborated with product and data teams to translate business requirements into secure, scalable technical solutions.

Jeeves Inc. — Remote / Global

Full Stack Engineer (Fintech Platform) | Jul 2018 – Aug 2021

- Developed backend microservices supporting multi-region financial transactions, trade monitoring, and settlement processes with strong emphasis on data integrity and low latency.
- Partnered with internal UI and frontend teams to ensure reliable API integrations, predictable responses, and secure data access.
- Introduced observability tooling for production systems to monitor performance, detect anomalies, and reduce incident resolution times.
- Assisted in containerized deployments on AWS ECS, standardizing packaging, testing, and CI/CD pipelines for multiple services.
- Provided mentorship on distributed systems, best coding practices, and operational monitoring to maintain high reliability in production environments.

Ve Global — London, UK

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

- Contributed to migration from monolithic applications to API-first microservice architectures, improving scalability, modularity, and team efficiency.
- Supported analytics and reporting dashboards consumed by internal tools, ensuring data consistency, performance, and actionable insights.
- Participated in incident resolution, root cause analysis, and cross-team coordination to maintain high uptime and system stability.
- Enhanced CI/CD pipelines and automated testing coverage to improve reliability and minimize deployment errors.
- Collaborated asynchronously with global engineering teams to align architecture, coding standards, and system best practices.

Technical Skills

Languages: ****Java****, Python, JavaScript, TypeScript, SQL, NoSQL (PostgreSQL, MongoDB, Redis), transferable C# / Go experience

Frameworks & Platforms: ****Spring Boot****, Microservices, Event-Driven Architecture, REST APIs, gRPC, React.js, Frontend Integration

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

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

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

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

Soft Skills: Strategic Thinking, Independent Ownership, Proactive Task Leadership, Communication, Team Mentorship

Education

Bachelor of Science in Computer Science

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