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

Backend Engineer with 8+ years of experience designing and building high-throughput, low-latency systems for financial and trading applications. Expert in Go and Node.js, with hands-on experience in microservices, real-time market data feeds, and distributed systems. Skilled at improving system throughput, reducing latency, and ensuring fault-tolerant operations under heavy trading loads. Proven ability to translate product requirements into scalable, production-ready solutions while collaborating with frontend, data, and product teams. Experienced in mentoring engineers and driving best practices in architecture, testing, and deployment.

Professional Experience

Octaura Inc. — New York, NY

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

• Designed and implemented low-latency backend services in Go for a high-throughput trading platform, ingesting and processing millions of market events per second across multiple global exchanges.
• Developed microservices and RESTful APIs to serve real-time analytics and trading workflows, achieving ~30% reduction in average response time through concurrency and optimization strategies.
• Built event-driven pipelines for market data processing using message queues and streaming architectures, ensuring reliable delivery and minimal data loss.
• Collaborated with frontend and data engineers to integrate APIs with trader dashboards and analytics tools, improving system usability and performance visibility.
• Participated in CI/CD pipeline improvements, containerized deployments, and automated testing frameworks, reducing production rollout errors by ~25%.
• Mentored 2–3 junior engineers on Go concurrency patterns, microservice design, and performance tuning, improving team efficiency and code quality.

H1 Inc. — New York, NY

Senior Backend Engineer | Sep 2021 – Mar 2024

• Architected and maintained real-time financial data services supporting trading and analytics applications, focusing on scalability, fault tolerance, and throughput.
• Implemented APIs and microservices to process live market feeds, handling hundreds of thousands of ticks per second with minimal latency.
• Designed database schemas and time-series data storage in PostgreSQL and TimescaleDB, optimizing query performance for historical and real-time analytics.
• Developed tooling to monitor service health, latency, and data consistency, improving incident response time by ~20%.
• Collaborated with product and engineering teams to translate trading requirements into reliable backend solutions, enhancing platform stability and usability.
• Conducted code reviews and advocated best practices in distributed system design, testing, and performance optimization.

Jeeves Inc. — Remote / Global

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

• Built backend services using Go and Node.js to handle trading order flows and market data ingestion pipelines, achieving high throughput and reliability under production load.
• Implemented microservices and event-driven systems to support complex trading workflows and analytics applications with low-latency guarantees.
• Developed API endpoints for internal tools, enabling real-time data access for traders and analysts, reducing query latency by ~15%.
• Collaborated with distributed teams on feature planning, architecture, and operational improvements, ensuring consistent standards and reliability.
• Participated in CI/CD automation and containerized deployments, improving deployment consistency and system uptime.

Ve Global — London, UK

Backend Engineer (E-Commerce & AdTech) | Nov 2014 – Jun 2018
• Supported the evolution of financial platform backend architecture from monolithic services to microservice-based, low-latency systems, enhancing scalability and resilience.
• Designed and maintained event-driven pipelines for market data processing, ensuring accurate, real-time updates for downstream analytics.
• Assisted in the implementation of monitoring, logging, and performance metrics to proactively detect and resolve latency or reliability issues.
• Collaborated with product managers and cross-functional engineers to ensure backend services met operational, scalability, and security requirements.
• Contributed to code reviews, testing practices, and CI/CD workflow improvements, enhancing deployment reliability and maintainability.

Technical Skills

Languages: Go (Golang), Node.js, Rust (familiar), SQL

Backend & Architecture: Microservices, Low-Latency Systems, Event-Driven Architecture, API Design, Concurrency

Databases: PostgreSQL, TimescaleDB, Schema Design, Time-Series Data Management

Cloud & Infrastructure: AWS, Docker, Containerized Deployments, Cloud-Native Patterns

Messaging & Streaming: Kafka, RabbitMQ, Event Queues, Market Data Feeds

CI/CD & Automation: GitHub Actions, Jenkins, Automated Testing, Deployment Pipelines

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

Collaboration & Leadership: Remote Team Collaboration, Mentorship, Feature Ownership, Agile/SCRUM

Soft Skills: Problem Solving, Strategic Thinking, Communication, Ownership

Education

Bachelor of Science in Computer Science

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