

Luis German Rodriguez Tanamachi

Senior Software Engineer | Fintech · Healthcare · E-Commerce

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Professional Summary

Senior Python Engineer with 10+ years of professional software engineering experience, specializing in building internal platforms, developer tooling, and automation frameworks that improve engineering velocity, reliability, and system quality. Deep expertise in Python-based backend development, RESTful API design, and production-grade services supporting high-scale fintech and healthcare platforms processing millions of records daily. Proven ability to design and maintain internal systems that abstract infrastructure complexity, enhance CI/CD workflows, and standardize development practices across teams. Strong advocate for clean code, testing, and observability, with hands-on experience improving deployment reliability, reducing operational toil, and increasing developer productivity through automation. Experienced mentor and cross-functional collaborator, regularly partnering with product managers, platform teams, and engineers to translate developer pain points into durable, well-documented platform solutions.

Professional Experience

Octaura Inc. — New York, NY

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

- Designed, developed, and maintained Python-based backend services and internal tooling that supported mission-critical fintech workflows, enabling engineers to reliably build, test, and deploy services through standardized, automated processes.
- Built and extended RESTful APIs using Python frameworks to power internal platforms and developer-facing services, abstracting infrastructure complexity and improving developer experience across multiple teams.
- Created automation scripts and CI/CD enhancements using **GitHub Actions**, **Docker**, and Python-based tooling, reducing manual deployment effort and increasing release reliability across environments.
- Independently analyzed and resolved production issues by reviewing logs, metrics, and service behavior, implementing durable fixes that improved platform stability and reduced incident recurrence.
- Collaborated closely with engineers and product stakeholders to identify friction in development workflows and design pragmatic tooling solutions that increased productivity and consistency.

- Implemented structured logging and monitoring practices for backend services, improving observability and accelerating root-cause analysis during incidents.
- Conducted thorough code reviews and mentored junior engineers on clean code principles, testing strategies, and maintainable Python service design.

H1 Inc. — New York, NY

Senior Backend Engineer | Sep 2021 – Mar 2024

- Architected and maintained large-scale Python backend systems processing millions of records per day, providing reliable data services and internal APIs consumed by multiple engineering teams.
- Developed internal utilities and automation frameworks that standardized service configuration, testing, and deployment workflows, improving consistency and reducing onboarding time for new engineers.
- Strengthened CI/CD pipelines by integrating automated testing, container builds, and deployment checks, raising overall code quality and reducing production regressions.
- Partnered with platform, frontend, and data teams to ensure internal APIs and tooling met performance, usability, and reliability requirements.
- Championed best practices around Python code organization, modular design, and testability, reducing technical debt across shared services.
- Mentored engineers on backend and platform concepts, reinforcing disciplined development practices and production readiness.

Jeeves Inc. — Remote / Global

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

- Developed Python-based backend services and APIs supporting global fintech operations, with a focus on correctness, performance, and reliability in distributed environments.
- Designed and optimized **PostgreSQL** schemas and queries to support complex business workflows and high-throughput internal systems.
- Built automation around service deployment and operational tasks using Python scripts and containerized workflows, reducing manual operational overhead.
- Collaborated with analytics and frontend teams to integrate backend systems with internal dashboards and tooling.
- Contributed to CI/CD automation and Docker-based deployment pipelines, improving repeatability and reducing deployment failures.
- Supported junior engineers through code reviews and hands-on guidance around production-grade Python development.

Ve Global — London, UK

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

- Contributed to the transition from monolithic systems to service-oriented architectures, improving scalability and enabling teams to deploy and operate services independently.

- Built and maintained backend APIs and internal services that supported reporting, monitoring, and operational tooling.
- Participated in incident response and post-mortem analysis, helping identify systemic issues and implement long-term improvements.
- Enhanced automated testing and deployment workflows, strengthening reliability and consistency across environments.
- Collaborated with distributed teams to align on coding standards, tooling practices, and platform architecture.

Technical Skills

Languages: Python (primary, 10+ yrs), Bash, SQL

Backend & APIs: RESTful APIs, FastAPI, Flask, Internal Tooling Services, Backend for Developer Platforms

CLI & Developer Tooling: Python-based Automation Scripts, Command-Line Utilities, Developer Productivity Tools

Python Ecosystem: Modular Codebases, Dependency Management, Packaging Concepts, Virtual Environments

CI/CD & Automation: GitHub Actions, Jenkins, CI/CD Pipeline Automation, Build & Deployment Workflows

Cloud & Infrastructure: AWS, Docker, Kubernetes, Cloud-Native Platform Services

Databases: PostgreSQL, Redis, DynamoDB (familiarity), Schema Design, Data Modeling

Quality & Observability: Unit Testing, pytest-style Testing Practices, Logging, Metrics, Production Monitoring

Collaboration & Leadership: Mentorship, Code Reviews, Technical Documentation, Cross-Functional Collaboration

Education

Bachelor of Science in Computer Science

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