Luis German Rodriguez Tanamachi

Senior Backend Engineer | Python, APIs, AI-Augmented Development

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Professional Summary

Senior Backend Engineer with 10+ years of experience designing, building, and operating scalable, cloud-native services across fintech, healthcare, and e-commerce domains. Expert in Python, async programming, concurrency patterns, and event-driven architectures. Experienced in API development, distributed systems, SQL/NoSQL data modeling, and integrating AI-assisted workflows and LLM APIs. Familiar with modern frontend frameworks (Next.js, React) and CI/CD pipelines, enabling end-to-end full-stack and AI-augmented solutions.

Professional Experience

Octaura Inc. — New York, NY

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

- Developed scalable backend services in Python with async programming and event-driven patterns.
- Built and maintained APIs using FastAPI and Flask for transactional and analytics workflows.
- Designed data models and queries for SQL/NoSQL systems to support high-throughput workloads.
- Integrated AI-assisted coding workflows (GitHub Copilot, Cursor) to accelerate development, refactor code, and debug systems.
- Supported LLM-based tools for internal analytics and automation pipelines.
- Maintained frontend components using React/Next.js for dashboards and data visualization.
- Deployed cloud-native microservices on AWS and Azure, with CI/CD pipeline automation.
- Collaborated with product and design teams to translate business requirements into technical solutions.

H1 Inc. — New York, NY

Senior Full Stack Engineer | Sep 2021 – Mar 2024

- Developed Python-based backend services and APIs supporting healthcare analytics platforms.
- Implemented async workflows and task queues for data ingestion and processing.
- Built Python utilities to transform, normalize, and enrich backend datasets for frontend use.
- Worked with SQL and NoSQL databases to store, query, and manage high-volume data.
- Leveraged AI coding assistants to improve productivity and ensure code consistency.
- Supported React-based dashboards and internal tools for healthcare operations.

- Participated in CI/CD pipeline management, testing, and deployment processes.

Jeeves Inc. — Remote / Global

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

- Developed Python microservices for fintech platforms, including API endpoints and event-driven pipelines.
- Implemented async processing and message queues (Celery, RabbitMQ) for transaction workflows.
- Integrated AI-assisted coding workflows to improve feature delivery and maintainability.
- Collaborated with frontend teams on React-based dashboards for internal monitoring and reconciliation.
- Maintained cloud infrastructure on AWS and Azure, following serverless and containerized patterns.
- Supported monitoring, logging, and performance tuning of backend services.

Ve Global — London, UK

Software Engineer (E-Commerce & AdTech) | Nov 2014 – Jun 2018
- Built and maintained Python-based services for e-commerce and ad-tech platforms.
- Worked with SQL databases and data transformation pipelines to support reporting and analytics.
- Assisted in integrating backend services with frontend dashboards and visualizations (React).
- Supported cloud infrastructure migration, containerization, and operational monitoring.
- Participated in code reviews, technical discussions, and team knowledge sharing.

Technical Skills

Backend & APIs
Python (async, concurrency), FastAPI, Flask, Django, REST APIs, microservices, event-driven architectures

Data & Storage
SQL, PostgreSQL, MySQL, MongoDB, NoSQL modeling, data transformations

AI-Augmented Development
GitHub Copilot, CodeWhisperer, Cursor; prompt engineering for code generation, refactoring, and debugging
LLM integration (exposure), vector databases (exposure)

Frontend
React, Next.js, component-based architecture, state management, responsive design

Cloud & DevOps
AWS, Azure, GCP (cloud-native deployments), serverless exposure, CI/CD pipelines, Docker, Kubernetes

Queueing & Messaging
Celery, RabbitMQ, Kafka (conceptual exposure)

Collaboration & Workflow
Agile/Scrum, cross-functional collaboration, Git/GitHub/GitLab, technical documentation

Education

Bachelor of Science in Computer Science

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