

Luis German Rodriguez Tanamachi

Senior Backend Engineer | Fintech · Healthcare · E-Commerce

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Professional Summary

Full Stack Software Engineer with 5+ years of experience building scalable web applications, robust APIs, and user-friendly interfaces. Proficient in **Python**, **Node.js**, and **React**, with strong expertise in designing reliable web scraping and data extraction pipelines. Experienced in integrating backend and frontend systems, optimizing application performance, and implementing CI/CD workflows to streamline deployments. Skilled in collaborating with cross-functional teams to translate business requirements into maintainable, production-ready solutions. Proven ability to deliver high-quality software while maintaining security, scalability, and operational efficiency.

Professional Experience

Octaura Inc. — New York, NY

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

- Designed and maintained scalable backend services using **Python** and **Node.js**, serving multiple internal and external clients, with system uptime above **99.9%** across high-traffic endpoints.
- Built and maintained RESTful APIs with **FastAPI**, handling **millions of requests per month** with optimized query performance and secure authentication flows.
- Developed and optimized web scraping pipelines capable of extracting structured and unstructured data from **50+ dynamic websites**, implementing rate-limit handling and error recovery to maintain over **95% data accuracy**.
- Partnered with frontend engineers to integrate APIs with **React/TypeScript** interfaces, improving client-server performance and reducing average load times by **~20%**.
- Enhanced CI/CD pipelines using **GitHub Actions** and **Docker**, reducing average deployment time by approximately **30%** and minimizing production errors.
- Mentored 3–4 junior engineers in backend design, scraping workflows, and testing best practices, raising team efficiency and code quality metrics.

H1 Inc. — New York, NY

Senior Backend Engineer | Sep 2021 – Mar 2024

- Architected and implemented Python-based backend services supporting real-time data extraction and API-driven workflows, improving system throughput by **~40%** through query optimization and caching strategies.
- Built reusable automation frameworks for CI/CD and deployment workflows, enabling the engineering team to release features **2x faster** while maintaining high test coverage.
- Designed and maintained web scraping services capable of handling dynamic content, authentication, and paginated data, supporting **5+ internal analytics dashboards**.
- Collaborated with frontend teams to deliver performant **React/TypeScript** interfaces, implementing client-side optimizations that decreased rendering time by **~15%**.
- Conducted code reviews, established testing standards, and enforced clean architecture principles across backend and scraping pipelines.

Jeeves Inc. — Remote / Global

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

- Developed backend services using **Python** and **Node.js**, integrating with external APIs and internal databases, supporting high-volume workflows and maintaining **99% uptime**.
- Implemented web scraping solutions to extract structured and semi-structured data from multiple sources, handling authentication, throttling, and normalization to ensure consistent pipeline reliability.
- Designed RESTful APIs consumed by frontend **React** applications, enabling dynamic data-driven interfaces and improving response times by **~25%**.
- Participated in CI/CD pipeline enhancements, containerized deployments with **Docker**, and automated testing workflows, reducing release defects by **~20%**.
- Collaborated with cross-functional teams to align feature implementation with business requirements and user experience standards.

Ve Global — London, UK

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

- Contributed to full-stack development projects, integrating **Python** backend services with **React/TypeScript** frontends, delivering responsive user interfaces across multiple devices.
- Built and maintained web scraping pipelines to extract and normalize data from external sources, ensuring reliability and maintainability of automated workflows.
- Implemented API endpoints and backend services supporting internal tools and client-facing applications, achieving improved request handling efficiency.
- Enhanced deployment pipelines using containerization and automated scripts, improving deployment consistency and reducing downtime during releases.
- Collaborated with product managers and designers to translate business requirements into robust technical solutions.

Technical Skills

Languages: Python, Node.js, JavaScript, TypeScript, SQL

Frameworks & Libraries: FastAPI, React, RESTful API Design, Web Scraping Tools

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

Cloud & Infrastructure: AWS, Docker, Containerized Environments

CI/CD & Automation: GitHub Actions, Jenkins, Automated Testing, TDD Principles

Data & Extraction: Web Scraping, Data Normalization, Dynamic Content Handling, Rate Limit Management

Collaboration & Methodology: Agile/SCRUM, Code Reviews, Feature Ownership, Cross-Functional Collaboration

Soft Skills: Problem Solving, Communication, Attention to Detail, Mentorship

Education

Bachelor of Science in Computer Science

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