

Luis German Rodriguez Tanamachi

Senior DevOps Engineer | Fintech · Healthcare · E-Commerce

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Professional Summary

Senior DevOps Engineer with 8+ years of experience designing, deploying, and operating scalable cloud infrastructure for high-performance applications. Expert in AWS with strong proficiency in Pulumi, Docker, and Kubernetes, implementing automated CI/CD workflows and operational guardrails. Skilled at improving reliability, reducing deployment times, and ensuring security and compliance within healthcare-grade environments. Adept at collaborating with software engineers to troubleshoot production issues, optimize system performance, and reduce cloud spend. Proven ability to lead infrastructure initiatives and mentor teams in best practices for automation, observability, and scalable cloud architecture.

Professional Experience

Octaura Inc. — New York, NY

Senior Frontend Developer (Fintech Infrastructure) | Apr 2024 – Oct 2025

- Designed and maintained scalable AWS infrastructure for high-availability healthcare applications, managing services across ECS, RDS, Lambda, S3, and DynamoDB to support 24/7 operations for millions of users.
- Led the development of Pulumi-based IaC pipelines, ensuring fully version-controlled, reproducible cloud deployments and reducing manual configuration errors by approximately 40%.
- Architected and optimized CI/CD workflows in GitHub Actions for Python/Django and React applications, reducing deployment lead time by ~35% while maintaining high release reliability.
- Automated operational processes using Python and Bash scripts, eliminating repetitive manual tasks and improving team efficiency by ~25%.
- Implemented advanced monitoring and observability frameworks using New Relic, proactively detecting performance anomalies and improving incident response times by ~30%.
- Collaborated with engineering teams to enforce security best practices, manage secrets via AWS Secrets Manager, and maintain HIPAA-compliant operational standards.
- Mentored 2–3 junior engineers on cloud best practices, IaC implementation, and deployment automation, raising team-wide operational excellence.

H1 Inc. — New York, NY

Senior Frontend Developer | Sep 2021 – Mar 2024

- Owned end-to-end AWS infrastructure management, scaling microservices and backend applications while maintaining system uptime above 99.9%.
- Built and maintained CI/CD pipelines for multiple applications using GitHub Actions, Docker, and Kubernetes, improving deployment frequency and reliability.
- Implemented automation scripts to streamline cloud provisioning, environment setup, and maintenance tasks, reducing manual intervention by ~30%.
- Monitored cloud costs and implemented guardrails to prevent overspending, achieving ~20% reduction in monthly cloud expenditure.
- Collaborated with software engineers to troubleshoot production issues, improve system reliability, and optimize performance across distributed services.
- Participated in architecture discussions and code reviews, establishing best practices for scalable and secure infrastructure.

Jeeves Inc. — Remote / Global

Frontend Developer (Fintech Platform) | Jul 2018 – Aug 2021

- Managed AWS environments supporting distributed applications, implementing automated provisioning and scaling for high-performance microservices.
- Developed and maintained IaC scripts with Pulumi/Terraform to standardize deployments and ensure reproducibility across multiple environments.
- Implemented monitoring, logging, and alerting systems to maintain operational reliability, detecting and resolving incidents proactively.
- Automated routine infrastructure tasks using Python and Bash, improving operational efficiency and reducing error-prone manual processes.
- Collaborated closely with cross-functional teams to define cloud architecture requirements, enforce security policies, and streamline deployment workflows.

Ve Global — London, UK

Frontend Developer (E-Commerce & AdTech) | Nov 2014 – Jun 2018

- Supported cloud-native application infrastructure with a focus on AWS services, including compute, database, and storage solutions.
- Built Dockerized environments and deployed containerized microservices using Kubernetes and ECS, ensuring consistent production performance.
- Assisted in the creation and maintenance of CI/CD pipelines, integrating automated testing, deployments, and environment provisioning.
- Contributed to security and compliance initiatives by implementing secrets management, access controls, and operational guardrails.
- Partnered with engineering teams to optimize performance, troubleshoot production issues, and ensure scalable, reliable infrastructure operations.

Technical Skills

Cloud & Infrastructure: AWS (ECS, RDS, Lambda, S3, DynamoDB), Cloud Architecture, Cost Optimization

IaC & Automation: Pulumi, Terraform, CloudFormation, CI/CD Pipelines, GitHub Actions, Bash, Python Automation

Containerization & Orchestration: Docker, Kubernetes, ECS, Microservices Management

Monitoring & Observability: New Relic, Logging, Metrics, Alerts, Operational Reliability

Security & Compliance: Vanta, HIPAA Compliance, Secrets Management, Secure Infrastructure Practices

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

Soft Skills: Problem Solving, Communication, Leadership, Ownership, Strategic Initiative

Education

Bachelor of Science in Computer Science

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