Daniel Balagula

Senior Software Engineer | Backend | Distributed Systems

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EXPERIENCE

Software Engineer, Distributed Compute
Two Sigma

Nov. 2022 – Present
New York, NY

- Built real-time data pipeline processing billions of compute job events into an analytics warehouse, including infrastructure to backfill 10 years of historical data
- Designed and shipped a kill-switch for AI agents—a service that lets operators instantly halt runaway autonomous workloads across the compute fleet
- Rebuilt the log storage system for distributed compute jobs—added compression and multi-file support, reducing storage costs while extending data retention

Software Engineer
Coinbase

May 2021 – Nov. 2022
New York, NY

- Architected notification infrastructure supporting SMS, Email, Push, and In-App delivery channels
- Built onboarding flow and beta experience for NFT marketplace launch (nft.coinbase.com)
- Developed internal tools for non-technical teams, improving operational productivity

Software Engineer
Intelligent Retail Lab

Nov. 2019 – May 2021
Hoboken, NJ

- Built machine learning pipelines delivering key business metrics, contributing to acquisition by Walmart
- Developed services for visualizing and presenting ML model results in human-readable formats
- Created and maintained backend services with comprehensive monitoring, scaling, and alerting

Software Engineer
Quantum Circuits

June 2018 – Nov. 2019
New Haven, CT

- Joined as first software engineer; built software critical to securing Series B funding (Sequoia Capital)
- Collaborated with physicists and engineers to design core infrastructure for complex quantum systems
- Implemented highly parallel, low-latency code requiring precise timing execution
- Established development workflows and CI/CD pipelines adopted across the engineering organization

Software Engineer
IBM

June 2017 – June 2018
Rochester, MN

- Built and maintained Terraform template generator for enterprise middleware cloud deployments
- Updated infrastructure-as-code configurations to align with evolving best practices
- Tested and debugged cloud infrastructure deployments

TECHNICAL SKILLS

Languages: Python, Go, Java, SQL
Data: PostgreSQL, BigQuery, Kafka
Infrastructure: Cloud Platforms, Kubernetes, Docker

EDUCATION

New York University
Bachelor of Arts in Computer Science

New York, NY
Aug. 2013 – May 2017