

# Daniel Balagula

Software Engineer | Backend | Distributed Systems

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## EXPERIENCE

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<b>Software Engineer, Distributed Compute</b> <i>Two Sigma</i>	Nov. 2022 – Present New York, NY
<ul style="list-style-type: none"><li>Built real-time data pipeline processing billions of compute job events into an analytics warehouse, including infrastructure to backfill 10 years of historical data</li><li>Designed and shipped a kill-switch for AI agents—a service that lets operators instantly halt runaway autonomous workloads across the compute fleet</li><li>Rebuilt the log storage system for distributed compute jobs—added compression and multi-file support, reducing storage costs while extending data retention</li></ul>	
<b>Software Engineer</b> <i>Coinbase</i>	May 2021 – Nov. 2022 New York, NY
<ul style="list-style-type: none"><li>Architected notification infrastructure supporting SMS, Email, Push, and In-App delivery channels</li><li>Built onboarding flow and beta experience for NFT marketplace launch (<a href="https://nft.coinbase.com">nft.coinbase.com</a>)</li><li>Developed internal tools for non-technical teams, improving operational productivity</li></ul>	
<b>Software Engineer</b> <i>Intelligent Retail Lab</i>	Nov. 2019 – May 2021 Hoboken, NJ
<ul style="list-style-type: none"><li>Built machine learning pipelines delivering key business metrics, contributing to acquisition by Walmart</li><li>Developed services for visualizing and presenting ML model results in human-readable formats</li><li>Created and maintained backend services with comprehensive monitoring, scaling, and alerting</li></ul>	
<b>Software Engineer</b> <i>Quantum Circuits</i>	June 2018 – Nov. 2019 New Haven, CT
<ul style="list-style-type: none"><li>Joined as first software engineer; built software critical to securing Series B funding (Sequoia Capital)</li><li>Collaborated with physicists and engineers to design core infrastructure for complex quantum systems</li><li>Implemented highly parallel, low-latency code requiring precise timing execution</li><li>Established development workflows and CI/CD pipelines adopted across the engineering organization</li></ul>	
<b>Software Engineer</b> <i>IBM</i>	June 2017 – June 2018 Rochester, MN
<ul style="list-style-type: none"><li>Built and maintained Terraform template generator for enterprise middleware cloud deployments</li><li>Updated infrastructure-as-code configurations to align with evolving best practices</li><li>Tested and debugged cloud infrastructure deployments</li></ul>	

## TECHNICAL SKILLS

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**Languages:** Python, Go, Java, SQL

**Data:** PostgreSQL, BigQuery, Kafka

**Infrastructure:** Cloud Platforms, Kubernetes, Docker

## EDUCATION

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<b>New York University</b> <i>Bachelor of Arts in Computer Science</i>	New York, NY Aug. 2013 – May 2017
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