

Daniel Balagula

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EDUCATION

New York University

Bachelor of Arts in Computer Science

New York, NY

Aug. 2013 – May 2017

EXPERIENCE

Software Engineer

Intelligent Retail Lab

November 2019 – Present

Hoboken, NJ

- Developed backend pipelines for communicating with internal and external stakeholders
- Developed services to assist with serving visualized and human-readable machine-learning model results
- Implemented alerting and monitoring with Prometheus to ensure system stability

Software Engineer

Quantum Circuits

June 2018 – November 2019

New Haven, CT

- Joined the company as the first software engineer and helped build software that was essential to funding goals
- Collaborated extensively with non-software engineers to understand the requirements of the company's unique complex systems and designed and built core infrastructure
- Implemented highly parallel low-level code that required extremely high precision execution
- Laid out foundations for development workflows and pipelines for many of the tools now in use at the company

Software Engineer

IBM

June 2017 – June 2018

Rochester, MN

- Built, maintained, and suggested improvements for a tool that generated Terraform templates (technology that deploys and tracks the lifecycle of a cloud deployment) used for enterprise middleware software
- Developed a game in Java to test the generated dungeons
- Updated “infrastructure as code” files for cloud deployments to keep up with best practices and version changes
- Tested and debugged deployments of cloud infrastructure

PROJECTS

PyZTrending

Aug. 2020 – Present

- Developed Python library that is able to determine arbitrary trending data given a historical dataset

Plainview

Jan. 2017 – June 2017

- Received grant from CUNY Startups on project involving archival of web content
- Designed and implemented the full stack for the web application
- Was able to scrape, analyze, and monitor future changes for news content for dozens of different online publications

TECHNICAL SKILLS

Languages: Python, Typescript

Developer Tools: Git, Docker, Kubernetes, Helm