

Beaman Negash

📍 West Orange, New Jersey

✉ BeamanNegash@gmail.com

🌐 BeamanNegash.com

in BeamanNegash

Skills

Languages: Java, Python, HTML/CSS, SQL, MATLAB

Frameworks & Tools: Spring Boot, Django, React, CI/CD (Jenkins, TeamCity, GitLab), OpenShift, Apache Kafka, AWS, Docker, Kubernetes, MongoDB

Testing & DevOps: JUnit, Karate, Cucumber, Pytest, Git, SonarQube, Camunda, Ansible, Jira

Experience

Software Engineer

August 2023 – Present

Barclays | Whippany, NJ

- Strengthened Barclays' Core Settlement Services by migrating legacy systems to a microservices architecture using Spring Boot, deploying containerized environments on OpenShift, integrating Kafka for data handling, and Camunda for workflow orchestration—processing 10–20 million daily transactions valued at over \$500 billion
- Engineered scalable CI/CD pipelines across DEV, UAT, and PROD environments on AWS EC2 clusters, automating deployments with Jenkins, enhancing test coverage with JUnit, and integrating SonarQube—improving code quality enforcement for a high-throughput financial system processing billions in transactions
- Migrated Barclays' load balancing system to a microservices model using Python with F5 LTM/GTM load balancers, enabling self-service provisioning, leveraging Kafka for request queuing, and automating deployments with Ansible—reducing provisioning time from 4 weeks to 1 week, cutting manual effort
- Automated Barclays' Schedule Manager service for Securitized Products, optimizing SQL queries to generate and distribute weekly stress loss reports exceeding \$1 billion in value—enhancing data accuracy and efficiency

Software Engineer Intern

June 2022 - August 2022

Barclays | Whippany, NJ

- Interned within FinCrime, monitoring the transactions of 12 million Barclaycard users in the US using ACTIMIZE AML, software from NICE that leverages AI, machine learning, domain expertise, and robotic process automation to combat crimes such as Terrorist Financing, Money Laundering, Drug Trafficking, etc
- Implemented SQL code to update Barclays' databases with 10 million new customers, integrating the accounts into Barclays' Transaction Monitoring System and enabling eligibility for Host-Based Capability alerting
- Refined production architecture documentation for AML and regulatory reporting workflows, improving clarity and system accuracy
- Collaborated with a global team of 4 to design and pitch an automated recycling program, introducing cost-saving measures aligned with Barclays' sustainability goals

Projects

Stock Trading Bot

- Established a Python-based stock trading bot using Alpaca's API, NumPy, and Scikit-learn to simulate trading strategies and execute paper trades
- Architected price pattern recognition algorithms to identify buy/sell opportunities based on swing high patterns
- Achieved a 3.02% portfolio gain in one month using a pattern-based strategy, outperforming the SPY ETF during the same period by identifying profitable trades with real-time market data

Rutgers Route Planner System

- Led a team of 4 to create a Python-based bus route optimization algorithm using Agile methodology, providing a seamless user experience with an authentication component and a Tkinter-based GUI
- Leveraged Google Maps API and Distance Matrix to calculate optimal routes and travel times, guaranteeing no student waited more than 30 minutes between bus stops across the New Brunswick campus
- Verified system reliability and error resilience through comprehensive unit testing of user inputs and authentication

Education

Bachelor of Science in Computer Engineering

Rutgers University - New Brunswick, NJ

Honors: Cum Laude