SKILLS

Languages: Java, Python, Typescript, Next.js, Javascript

Technologies/Frameworks: Spring Boot, Docker, Oracle SQL, MongoDB, Kafka, Kubernetes, Gradle, Jenkins, Git, Junit

EXPERIENCE

Citigroup Jul. 2023 – Present

Software Engineer – Fixed Income eTrading

- Architected and implemented a mission-critical golden source reference data system using Java Spring Boot and MongoDB, processing real-time Fixed Income trading data serving 15+ downstream systems with 99.99% availability
- Engineered and deployed an end-to-end test automation framework leveraging Cucumber/Gherkin BDD methodology, achieving 65% increased test coverage through seamless CI/CD pipeline integration
- Modernized legacy Support UI from Angular 5 to 16, implementing modern state management and component architecture, resulting in **50% faster development velocity**
- Resolved critical trading data discrepancies by collaborating with support, utilizing debugging and log analysis to identify root causes and implement lasting solutions

Citigroup May 2022 – Aug. 2022

Software Engineer Intern - Global Spread Product Syndication

- Implemented a new CI/CD pipeline, achieving a **40**% **reduction in build times**, leading to faster development cycles and deployments
- Created an Oracle SQL database for application property injection at startup, streamlining deployments and saving over 1 hour per change
- Demonstrated experience with agile methodologies, **effectively adapting to changing requirements** within a fast-paced development environment

Ted Rogers School of Management - Cybersecurity Research Lab

Sept. 2021 - Apr. 2022

Research Assistant - Mosaique

- Utilized **blockchain technology to develop a decentralized governance workflow platform** to enable trust, transparency and accountability
- Leveraged open-source technologies such as Cytoscape to design an intuitive user interface, enabling simplified
 governance model development without the need for chain code redeployment
- Conducted literature reviews on decentralized governance models, contributing insights that informed platform development and strategic direction

EDUCATION

Georgia Institute of Technology

Masters of Science in Computer Science

Toronto Metropolitan University

Honours Bachelor of Science in Computer Science

PROJECTS

DeepTrade: Predicting the Future of Stocks | Python, SkLearn, NumPy

- Developed a Long Short-term Neural Network (LSTM) to predict the next day opening price of any publicly traded company on the NYSE and NASDAQ
- Automatically sourced real time data from the Yahoo Finance API to ensure data quality

PintPredictor: Data-Driven Beer Style Discovery | Python, SkLearn, Pandas

- Constructed an unsupervised machine learning model capable of classifying beer styles, showcasing proficiency in data analysis and machine learning
- Utilized the KNN algorithm to identify similarities between various beer types, validating results through the elbow method