NAZARIY TIVIRIKIN

647-829-6015 | n.tivirikin@gmail.com | Toronto, ON

EDUCATION

Georgia Institute of Technology — Atlanta, USA
Master of Science in Computer Science, GPA: 3.72 — Jan 2022 – Dec 2024

Athabasca University — Athabasca, AB
Non-Degree Student in Computer Science — Apr 2021 – Dec 2021

Queen's University — Kingston, ON
Bachelor of Applied Science in Chemical Engineering — Sept 2014 – May 2018

EXPERIENCE

TD Bank Group — Toronto, ON
QE Automation Developer — Jan 2021 – Apr 2021
QE Automation Contractor (via FDM Group) — Aug 2018 – Jan 2021

- Developed a test automation framework for mainframe applications using Java and Selenium, reducing manual testing time by 50% across the personal banking testing team
- Implemented automated regression testing using Jenkins and Git as part of a CI/CD pipeline for mainframe deployments, removing the need for manual regression testing following code deployment
- Leveraged automated regression test cases to run periodic test environment health checks, decreasing environment downtime per month by one-third
- Collaborated within an Agile, cross-functional team to translate business requirements into comprehensive test plans, ensuring alignment with project objectives
- Led test automation demonstrations for hundreds of colleagues across company departments, showcasing best programming practices and test suite capabilities

PROJECTS

Xeno-canto Birdsong Management Tool | *Python* — github.com/ntivirikin/xeno-canto-py

- Developed a management tool for the bird song database xeno-canto.org API using Python, facilitating concurrent retrieval of bird song recordings and metadata for over 800 thousand recordings
- Contributed to open-source software development and bird song research, receiving recognition through a research citation and GitHub stars

Machine Learning Projects | *Python, PyTorch, scikit-learn, NumPy, matplotlib* — May 2024 – Aug 2024

- Created and tuned supervised learning models to predict wine quality and classify beans based on physical characteristics using neural networks, support vector machines and instance based models
- Utilized unsupervised learning clustering and dimension reduction methods to modify datasets and improve neural network performance for classification tasks
- Investigated performance of randomized optimization algorithms when applied to neural network training and hyperparameter tuning

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, SQL
Frameworks and Libraries: Selenium, TestNG, Cucumber
Developer Tools: Linux/Unix, Git, Maven, Jenkins, Jira, Confluence