

ISAIAH IRUOHA

isaiah.iruoha@queensu.ca | linkedin.com/in/isaiahiruoha | isaiahiruoha.com | github.com/isaiahiruoha

Education

Queen's University

Kingston, ON

Bachelor of Applied Science in Computer Engineering, Smith Certificate in Business - GPA 4.0

Class of 2026

- Graham Award (\$9,600), Chris Hadfield Bursary (\$3,000), Principal's Scholarship with 98% Entrance Average (\$4,000)
- National Society of Black Engineers (NSBE), John W. McCauley Award, 2x Dean's Honor Distinction, Onyx Scholar

Professional Experience

GuestLogix

Toronto, ON

Software Engineering Intern

Summer 2024

- Increased error detection rate by 40% through the build-out of 3 dashboards monitoring 12 APIs over 4 environments
- Collaborated in an agile startup, using Atlassian tools to manage workflows and deliver demos to C-Suite executives
- Reduced crash identification time by 90% with automated Slack alerts and Grafana Incident immediate notifications

Scotiabank

Toronto, ON

Capital Markets and Investment Banking Intern

Summer 2024

- Completed rotations across 8 sectors gaining exposure to diverse financial instruments, technology and strategies
- Analyzed bond issuance and swap spread correlations for US banks using Python, Excel, and Bloomberg Terminal

Smith Engineering

Kingston, ON

Teaching Assistant

Winter 2023

- Instructed students on C development, covering efficient algorithms, syntax, and debugging techniques
- Supervised a body of 800 students through assistance with labs and grading code to enhance learning outcomes

Linamar Corporation

Guelph, ON

Software Automation Engineering Intern

Summer 2022 & 2023

- Saved 30% of time previously spent on manual viewing by leveraging JavaScript to create robot monitoring interfaces
- Employed LAD and FBD to develop logical solutions, contributing to the automation of 3+ manual processes
- Excelled in PLC programming using input tags to program and simulate the operation of 2 real conveyor belt systems

Extracurricular Experience

Queen's University Artificial Intelligence Club

Kingston, ON

Machine Learning Developer | Paper | Project

2023 – Present

- Deployed reinforcement learning with PyTorch to solve cryptocurrency arbitrage path finding through Python 3
- Produced a modern Vite React front-end and assisted with a Flask backend, deploying 2 products through Heroku
- Interfaced with 250+ asset pairings on Kraken's exchange API using Axios, creating a visualized model output
- Co-authored a research paper and presented findings to 320 delegates at an artificial intelligence conference

CREO Solutions

Kingston, ON

Data Analyst

2024 – Present

- Hired as 1 of 2 class of 2026 data analysts (6% acceptance rate) for Canada's top student consultancy
- Trained 5 machine learning models, attaining an average accuracy of 85% in classifying music genres across 10 areas

Algorithmic Network & Trading Team

Kingston, ON

Quantitative Trading Developer

2023 – 2024

- Created a predictive model using supervised machine learning surpassing the S&P by 5% with algorithmic trading

Projects

Movement Classification App | Project | *Python, NumPy, Pandas, Matplotlib, Scikit-Learn*

- Developed an application to classify sensor data using Logistic Regression achieving 96% accuracy and ROC scores
- Led a 3-person team in developing a cross-platform solution with a user interface and robust data processing pipeline

Full Stack MERN E-Commerce Site | Project | *MongoDB, Express.js, React, Node.js*

- Engineered an E-Commerce website "Buyonic" with the MERN stack, utilizing 6 modern frameworks and libraries
- Implemented user authentication with hashing and web tokens, single page application, routing and noSQL integration

Technical Skills and Interests

Languages: Python, JavaScript, C, PostgreSQL, Java, Bash, HTML/CSS/SASS, PHP, MongoDB, PLC (LAD, FBD)

Frameworks/Libraries: React, Node.js, Pandas, NumPy, SKLearn, PyTorch, Express, Bootstrap, Redux, Matplotlib

Tools: VSCode, Git, JetBrains's Suite, Office 365, Arduino IDE, TIA V15, SolidWorks, Grafana, Android Studio, Tkinter

Interests: Previous varsity athlete in basketball, soccer, football, and track; enjoy following financial markets, travelling, fishing, golf, fantasy basketball, and trying new foods.