

ARYA SALWAN



EQUITY ANALYST &
COMPUTER ENGINEER

CONTACT INFORMATION

(709)-327-8273

aryas@mun.ca

Portfolio: aryasalwan.com

EDUCATION

Memorial University of Newfoundland

Bachelors of Computer Engineering

Co-op Program, (2021-2026)

- Equity Analyst, The Fund (Fall 2024-present)

AWARDS & ACHIEVEMENTS

- MUN International Undergraduate Student Scholarship (\$12,000) - 2021
- Verafin Scholarship (\$3,000)-2022

SKILLS AND ABILITIES

- **Finance:** Proficient in Technical, Fundamental and Quantitative analysis.
- Strong understanding of financial markets and economic indicators.
- Excellent equity research skills and experience using technical analysis tools like Webull and Yahoo Finance
- **Soft Skills:** Excellent communication skills, skilled debater and public speaker. Strong collaboration and leadership skills.
- **Programming:** Java, Javascript, Python, C, C++, C#, GoLang, VHDL, HTML, CSS, PHP
- MongoDB, PostgreSQL and MySQL.
- **Frameworks:** React.js, .NET WPF, WinForms, MAUI, Django, Node.js, Databricks, pytest.

RELEVANT PROJECTS

[FundaQ-By Arya:](#)

- A software developed by me that produces custom buying and selling signals based on RSI, MACD, MA and other indicators.

[REIT NAVigator for Wealthsimple:](#)

- Evaluates if a REIT is trading at a discount or premium to its Net Asset Value (NAV) and generates buy or sell recommendations.

[S&P500 Overbought & Oversold Stocks Analyser:](#)

- Analyses S&P500 stocks on the bases of Relative Strength Index (RSI) and gives buy recommendations to user.

[Dark Mode for Traders:](#)

- A chrome based extension that enables DarkMode on Wealthsimple, Yahoo Finance, Tip ranks, MarketWatch & Nasdaq using CSS and JS.

WORK EXPERIENCE

Software Developer and Computer Vision Researcher

Birch Scientific, St John's

(2024 April - August)

- Collaborated on a team to build a SaaS data visualization platform with React.js, to generate dynamic graphs, and interact with 3D visualizations via an Unreal Engine plugin.
- Developed equations and algorithms for 3D mesh scale-space filtering using the Laplacian of Gaussian technique, utilizing VTK, Open3D, Trimesh, Gdist, and pygeodesic libraries for multiscale mesh visualization.
- Implemented computationally intensive Scale Space Filtering (SSF) algorithms on NVIDIA CUDA, utilizing parallel programming techniques to significantly enhance processing speed and accuracy.

Full Stack Software Developer

Blackberry, Ottawa

(2023 September - December)

- Engineered an internal test database tool called "BlackFish" to store automated test results from various teams.
- Designed an interactive GUI using .NET winForms for the data base tool, allowing the user to compare historical & current test results, generate reports and monitor trends.
- Extended Blackfish capabilities with REST API functionality to query, view, monitor, upload and compare test results seamlessly.
- Crafted unit and integration tests for Network Link Aggregation feature of QNX SDP 8.0 and authored shell scripts to automate processes on Jenkins.

Embeded Systems Software Engineer

Instrumar Limited, St John's NL

(2023 January-May)

- Developed ST and ladder logic-based solutions for PLCs in accordance with client specifications.
- Developed software and networking solutions for the upgraded IFS based on a Kubernetes cluster. Assisted in the setup and deployment of Apache cloud stack.
- Wrote a new driver in .net/c# for linking the new ADS based communication protocol from Beckhoff with the Instrumar fiber system(IFS) and modified existing drivers for OPC use.
- Modified and developed C++ code for Instrumar sensors to accommodate new data streams and change bit order.

Network Software Developer

Information and Technology Services-MUN

(2022 May-August)

- Independently developed a UDP-based request tracking system with chat room functionality using low-level network programming in python with an interactive GUI.
- Headed a team of talented computing support staff, providing software and hardware solutions to clients.
- Designed and assembled electronic circuits, assisted clients with soldering and circuit design.