

Adlai Bridson-Boyczuk

647 772-0824 | adlaibridsonboyczuk@gmail.com | [linkedin.com/in/adlai-bridson-boyczuk/](https://www.linkedin.com/in/adlai-bridson-boyczuk/) | github.com/boyczuk

EDUCATION

Queen's University

Kingston, ON

Bachelor of Computing (Honours), Specialization in Artificial Intelligence

Sept. 2020 – April 2024

- **Relevant Coursework:** Algorithms, Data Structures, Artificial Intelligence, Operating Systems, System-Level Programming, Software Quality Assurance, Software Architecture
- Dean's Honour List (2021-2022)

EXPERIENCE

Team Software Developer

Sept. 2022 – April 2023

QUANTTT

Kingston, ON

- Created an automated algorithmic trading strategy using Python on QuantConnect platform, backtested against the S&P index
- Leveraged economic data from Tech and Real Estate sectors, analyzed using Pandas library, to filter securities and trigger short sales using Simple Moving Average (SMA) and Relative Strength Index (RSI) technical indicators.
- Achieved a profitable outcome with an 18% return over a 3-year period, demonstrating the effectiveness of the strategy in capturing short-term price movements in the financial markets.

Backend Web Developer

Jan. 2023 – Present

Queen's Web Development Club

Kingston, ON

- Co-developed a Node.js server, HTML/CSS/React/Bootstrap web platform for "A Great Start to Families" community outreach program
- Created a user-friendly content management system (CMS) for the website, providing a seamless experience for administrators

Web Developer

July 2018 – June 2019

JA Scotiabank

Toronto, ON

- Collaborated in a small team to develop a merchandise website for JA Scotiabank company
- Implemented features such as a mailing list and user-friendly CMS for non-technical administrators to manage content and marketing

Front End Clerk

July 2019 – Sept 2020

Metro Inc

Toronto, ON

- Worked cash registers and self checkouts ensuring cash drawer accuracy. Transferred cash and checks into the back-office safe in a safe and secure manner

PROJECTS

Qbnb | *Python, Flask, MongoDB, Pytest, Linux, Docker*

- Collaborated on a Python-based CLI app for property rentals and booking using a Flask server, managing user data in MongoDB
- Followed an agile development cycle and utilized Pytest for unit and integration testing to ensure product quality

AdChat | *React, Node.js, Express.js, JavaScript, HTML/CSS, Heroku, MongoDB*

- Built and deployed a messaging web app with both private and public messaging capabilities on Heroku.

Trading Algorithm | *Python, Jupyter Notebooks, NumPy, pandas, QuantConnect*

- Developed a Python securities trading algorithm that achieved 18% profit in 3-year backtest against S&P 500

myLibrary | *C++, MySQL, Sqlite3, Qt*

- Designed and programmed a personal book manager to track and manage my reading habits

Forest Rumble | *C#, Unity, HTML, Photoshop,*

- Led development of a 2D level-based platformer. Added novel physics mechanics to pair with player movement

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C, Bash, x86 Assembly, L^AT_EX

Frameworks: HTML/CSS, Node.js, Express.js, React, Flask, Unity

Technologies: MongoDB, MySQL, pandas, NumPy, Pytest, Linux, Arduino, Excel, Git, Docker, VS Code, NetBeans, Eclipse