Adlai Bridson-Boyczuk

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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, Neural and Genetic Computing, Software Quality Assurance, Software Architecture
- Dean's Honour List (2021-2022, 2022-2023)

EXPERIENCE

Junior Developer — May 2023 – present
Yasu Energy — *Toronto, ON (Remote)*
- Contributed to the development and maintenance of a dynamic marketing and sales website for an Energy drink company.
- Collaborated with the team on an adhoc basis to implement new features and optimize the user experience.

Team Software Developer — Sept. 2022 – April 2023
QUANTT — *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 – May 2023
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

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

Spending Tracker | *Javascript, React, Flask, Electron, Sqlite3, HTML, CSS, MaterialUI*
- Developed a desktop app used to track, view, and better manage my personal finances.

UFC myGym | *React, Node.js, Express.js, JavaScript, HTML/CSS, Heroku, MongoDB*
- Built full-stack web application for managing and betting on UFC fighters based on how they perform in real life

Trading Algorithm | *Python, Jupyter Notebooks, NumPy, pandas, QuantConnect, Scikit-learn*
- 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

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, Typescript, C, Bash, x86 Assembly, LaTeX
Libraries & Frameworks: Node.js, Express.js, React, TensorFlow, PyTorch, Flask, HTML/CSS, jQuery, Unity
Technologies: MongoDB, MySQL, REST APIs, pandas, NumPy, Pytest, Linux, Arduino, Excel, Git, Docker, VS Code