Jason Tam

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SKILLS

Languages: Python, Java, C, C++, R, HTML, CSS, JavaScript, PHP, SQL.
Tools & Technologies: VS Code, Git, WSL, Unix/Linux, Jira, Confluence, Excel, Snowflake, Terraform, Postman, DBT, RudderStack, Braze, Simplecast Docker, AWS (S3, Lambda, SNS, EventBride, Cloudwatch, ECR, State Machine)

EXPERIENCE

Data Engineer, *Canadian Football League*   07/2023 – Present │ Toronto
- Led a software development project of an ELT pipeline, transferring user data from the CFL website to Snowflake. Developed Python scripts to extract data from Braze API and transfer it to cloud computing platform AWS. Automated continuous data flow with AWS Lambda. Then loaded into Snowflake by creating snowpipes, streams, tasks, and procedures using SQL. Used Terraform and DBT for deployment. Ensured data accuracy through testing with Postman and resolved pipeline errors via AWS CloudWatch, resulting in a 4x increase in data transfer speed.
- Resolved incomplete user data issues in the CFL Snowflake database, Braze API, and RudderStack API by integrating existing Snowflake data and synchronizing it across the APIs. Developed a Python script using pandas data structure and Snowflake connector. Automated this process with AWS services. Used GitHub for version control and created a test script to ensure data quality. This resulted in data consistency for CFL email and web services.

Warehouse Associate, *Costco Wholesale*   07/2023 – 05/2024 │ Richmond Hill
- Led the team during closing shifts by assigning tasks from a comprehensive checklist to each team member. Collaborated with team members to restock shopping carts. Assisted customers with moving products, and restocked inventory levels.

Private Tutor   09/2020 – 01/2024 │ Toronto, ON
- Used problem-solving skills to provide private tutoring services to the tutee across various academic disciplines.
- Resulted in the student achieving an increased average grade of 16%.

PROJECTS

Quantitative Research, *Python, VSCode, pandas, csv, matplotlib, git*
- Developed a Python script to analyze the correlation between Bitcoin prices and the Fear and Greed Index. Retrieved CSV data from online sources and stored it in a Pandas DataFrame. Analyzed price changes and sentiment, correlating them with historical data to identify significant trends.
- Researched and formulated multiple trading strategies, implementing them using Pine Script in TradingView to assess their effectiveness and performance.

Hospital Website, *LAMP, HTML, CSS, JavaScript, PHP, SQL, Linux*
- Designed a web-based application that contained made-up patient, doctor, and hospital information using a LAMP stack.
- Users were able to organize data, assign doctors to patients, add records, and remove records from the website.
- Built the front-end of the web application using HTML, CSS, and JavaScript.
- Constructed an ER diagram from user requirements which was then used to create the back-end SQL database that was connected to the front-end using PHP.

NHL Match Scores, *WSL, libcurl, C++, json*
- Created a program that displays hockey matches played today and each team's respective score.
- Set up Visual Studio Code on an Ubuntu virtual machine. Used libcurl to call the NHL API to retrieve JSON-formatted data which was then parsed by putting each match into a game object and outputted to the terminal.
- Modularized functions into classes, created a make file for functionality, and header files for readability.

VOLUNTEER

Hong Kong Student Association (HKSA), *Internals President*
- Took on a leadership position to lead a team of 8 in the Internals Department of the Hong Kong Students' Association at Western University, organizing and coordinating cultural events and activities to promote Hong Kong culture.

EDUCATION

Western University, *Bachelor of Management and Organizational Studies*   2020 – 2025 │ London, ON
Honors Double Major in Computer Science and Finance.