

Jason Tam

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SKILLS

Languages: Python, Java, C, C++, R, HTML, CSS, JavaScript, PHP, SQL

Tools & Technologies: Git, GitHub, Unix/Linux, Jira, Confluence, Snowflake, Terraform, Postman, DBT, RudderStack, Braze, Simplecast, Docker, AWS (S3, Lambda, SNS, EventBridge, CloudWatch, ECR, State Machine)

Framework and Libraries: React, Vite, Scikit-learn, Pandas, NumPy, Matplotlib

EXPERIENCE

Data Engineer, Canadian Football League

07/2023 – Present | Toronto

- Led the development of an ELT pipeline to transfer user data from the CFL website to Snowflake. Created Python scripts to extract data from the Braze API and automate data flow with AWS Lambda, using the AWS SDK for seamless AWS integration. Loaded data into Snowflake with Snowpipes, streams, tasks, and SQL procedures. Deployed with Terraform and DBT, achieving a 4x increase in data transfer speed by using cloud computing to improve efficiency
- Resolved incomplete user data issues in the CFL Snowflake database and APIs (Braze, RudderStack) by integrating and synchronizing existing Snowflake data. Developed a Python script with Pandas and the Snowflake connector, automating the process using AWS services.
- Ensured data accuracy with Postman and test scripts. Debugged errors with AWS CloudWatch.
- Implemented GitHub for version control and utilized Continuous Integration/Continuous Delivery (CI/CD) practices. Managed project tasks through Scrum weekly sprints and tracked progress using a Jira board.

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.

Personal Website, React, Vite, HTML, CSS, Javascript, Cursor

- Developed a personal website to showcase projects, skills, and experience, enhancing online visibility.
- Utilized React and Vite for the front-end, implementing a component-based architecture for quick development and deployment on GitHub Pages.
- Implemented modern web design principles with HTML, CSS, and JavaScript for code optimization and an engaging user experience, while managing back-end functionality with Cursor IDE.

NHL Match Scores, WSL, libcurl, C++, json

- Developed a program to display today's hockey matches and scores.
- Utilized libcurl to retrieve and parse JSON data from the NHL API into game objects.
- Applied Object-Oriented Programming (OOP) principles with modular classes and created Makefile/header files for better organization.

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,

2020 – 2025 | London, ON

Bachelor of Management and Organizational Studies

Honors Double Major in Computer Science and Finance.