

Sam Zhang

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EDUCATION

McGill University

Montreal, QC

B.A., Joint Computer Science and Statistics

Sept. 2022 – May 2025 (Expected)

GPA: 3.94/4

Champlain College

St-Lambert, QC

DEC, Social Science: Commerce

Aug. 2020 – May. 2022

Social Science Certificate of Merit: Highest Achievement in Economics

EXPERIENCE

Machine Learning Intern | *TensorFlow, Python, Scala, Java, SQL*

May. 2023 - Present

Meituan

Shanghai, China

- Contributed to the development and implementation of advertisement recommendation algorithms for Meituan's Advertising Platform, supporting a user base of 420 million active users and 5.9 million active merchants. Specifically, worked on improving the click-through rate (CTR) prediction for the Dianping app's homepage ads.
- Performed big data analysis and feature engineering using the **Hadoop ecosystem (Hive, Spark, MapReduce, ...)**
- Modeled, trained, and fine-tuned the Dianping app's homepage's CTR prediction model (binary classification) using **TensorFlow**.
- Conducted offline testing using testing data and performed online testing using A/B testing methods to assess the statistical significance in changes of various ad metrics.

PROJECTS

mcgill.courses | *TypeScript, React, TailwindCSS, Rust, MongoDB*

April. 2023 - Present

- Developed an open-source, ad-free search and review platform for courses offered and instructors teaching at McGill University.
- Led front-end development of the website using **TypeScript, React**, and **TailwindCSS**.
- Collaborated with the back-end, interacting with the **Rust** and **MongoDB** components through REST APIs.

LaTeX Algorithms | *TypeScript*

Feb. 2023

- Developed a **TypeScript** plugin for the Obsidian markdown editor that parses user input and automatically replaces it with the corresponding LaTeX shortcut, streamlining the writing of algorithm blocks and mathematical proofs.

STONK | *Python, SQLite*

Dec. 2022

- Created a Discord chat bot using the Discord.py library and the yfinance open-source library, enabling users to query live and historical stock market information.
- Implemented a robust stock information retrieval mechanism and a subscription system for users to receive automatic notifications on market trends.

TECHNICAL SKILLS

Languages: Python, TypeScript, Java, JavaScript, OCaml, C++, Rust, Scala, SQL

Databases: SQLite, PostgreSQL, MongoDB

Frameworks & Libraries: React, TailwindCSS, TensorFlow

Tools: Git, HTML/CSS, L^AT_EX, Spark

Languages Spoken: English, French, Mandarin, Cantonese