

# Sam Zhang

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## EXPERIENCE

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

May. 2023 - Present

*Meituan*

*Shanghai, China*

- Contributed to Meituan, the largest local life service platform in China's advertisement recommendation system.
- Participated in the research and development of the click-through rate (CTR) model for the Dianping app's homepage ad.
- Conducted various offline experiments to evaluate model performance and iteratively improved the models.
- Performed big data analysis and feature engineering using the **Hadoop ecosystem (Hive, Spark, ...)**
- Modeled, trained, and fine-tuned the models using **TensorFlow**.

## PROJECTS

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### 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.
- Responsible for the 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.

## EDUCATION

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### 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

## TECHNICAL SKILLS

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

**Databases:** SQLite, PostgreSQL, MongoDB

**Frameworks & Libraries:** React, TailwindCSS, TensorFlow

**Tools:** Git, HTML/CSS, L<sup>A</sup>T<sub>E</sub>X, Spark

**Languages Spoken:** English, French, Mandarin, Cantonese