

Sam Zhang

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EDUCATION

McGill University

B.A., Joint Computer Science and Statistics

GPA: 3.95/4

Montreal, Canada

Aug. 2022 – May 2025 (Expected)

EXPERIENCE

Software Developer Intern | TypeScript, React, C#, ASP.NET, SQL

Sept. 2023 - Present

Dayforce

Toronto, Canada

- Contributed to full-stack web development on Dayforce, a leading cloud-based human capital management platform. Developed the frontend for Dayforce's position management feature with **TypeScript** and **React**, and the backend microservices in **C#** and **ASP.NET**.
- Worked as a core member in the revamp of the frontend UI. Focused on enhancing user experience, implementing accurate validation logic, and optimizing browser-side performance while ensuring active collaboration with Product and UI/UX teams.
- Cleared tech debts for the team, designed and implemented automated tests using tools like Cypress and Specflow, thereby increasing application reliability and code robustness.

Machine Learning Research Intern | Hadoop, TensorFlow, Python, Scala, SQL

May 2023 - Aug. 2023

Meituan

Shanghai, China

- Engaged in research and development for Meituan, the largest leading local service platform in China, focusing on the advertisement recommender system.
- Worked on the Click-Through-Rate (CTR) model by deepening its comprehension of both ad context and user interactions, aiming to improve prediction accuracy.
- Conducted two comprehensive offline experiments, handling tasks from initiation to conclusion. Managed the cleaning, pre-processing, and feature extraction from datasets of over 150TB per experiment utilizing tools like **Hive**, **Spark**, and **MapReduce** within the Hadoop ecosystem. Subsequently, developed deployable models using **TensorFlow**.

PROJECTS

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

Apr. 2023 - Present

- Working on an open-source, ad-free platform for easy search and review of courses and instructors at McGill University.
- Developed the application front-end using **TypeScript**, **React**, and **TailwindCSS**, ensuring a smooth browser-side user experience.
- Implemented and deployed RESTful APIs using **Rust** for server-side logic and **MongoDB** for database management, with data retrieval efficiency and system scalability in mind.

LlmBda | Python

Dec. 2023

- Prompted and fine-tuned Meta's open-sourced LLM **Llama2** to generate a formal syntax tree output to investigate Large Language Models' (LLM) ability to understand logical semantics in semi-formal natural language.
- Developed from scratch unique evaluation metrics to evaluate model performances based on their syntax tree output, and pipelined the evaluation process using Python scripts.

Obsidian LaTeX Algorithm | TypeScript

Mar. 2023

- Developed with **TypeScript** a plugin for the electron-based markdown editor app *Obsidian* to facilitate the process of writing mathematical algorithms and pseudocodes within the editor.
- Acquired over 2,200+ downloads.

TECHNICAL SKILLS

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

Databases: SQLite, HiveQL, MySQL, MongoDB

Frameworks & Libraries: React, TailwindCSS, TensorFlow, ASP.NET

Tools: Git, Docker, Spark, Hadoop

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