Sam Zhang

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EDUCATION

McGill University   Montreal, QC

B.A., Joint Computer Science and Statistics   *Aug. 2022 – May. 2025 (Expected)*

GPA: 3.94/4

Relevant Courseworks:

- Natural Language Processing
- Computational Linguistics
- Data Structures and Algorithms
- Programming Languages and Paradigms
- Probabilities
- Statistics

EXPERIENCE

Software Developer Intern | *React, C#, ASP.NET, SQL*   Sept. 2023 - Present

Ceridian HCM   *Toronto, Canada (Remote)*

- Full-stack web development for Dayforce, a cloud-based human capital management (HCM) platform.
- Developing the micro-frontend of the Dayforce application's position management feature using **TypeScript React** and backend microservices using **C#** and **ASP.NET**.

Machine Learning R&D Intern | *TensorFlow, Python, Scala, SQL*   May. 2023 - Aug. 2023

Meituan   *Shanghai, China (On-Site)*

- Recommender system research and development for Meituan, the largest local life service platform in China.
- Worked on the tuning of the Click-Through Rate (CTR) model, a binary classification feedforward artificial neural network. Aiming to refine its understanding of the ad and the ad-user context, thereby improving its performance in CTR predictions.
- Conducted 2 offline experiments from start to finish with following the internal pipeline; cleaning, pre-processing, and extracting the features from over 100TB of data per experiment using the **Hadoop ecosystem (Hive, Spark, Mapreduce, . . .)**, and training using **TensorFlow**. The two experiments being:
  * Integrated a new set of image embeddings into the CTR model to assess potential performance increases.
  * Computed similarity measures between the user's historical search queries' keywords and ad canidates' keywords, and integrated them as features into the CTR model.

PROJECTS

mcgill.courses | *TypeScript, React, TailwindCSS, Rust, MongoDB*   April. 2023 - Present

- Developing and maintaining 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**.

TECHNICAL SKILLS

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

Databases: SQLite, HiveSQL, MySQL, MongoDB

Frameworks & Libraries: TensorFlow

Tools: Git, LaTeX, Spark, Hadoop

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