# Yaxuan Chen

+1 3658835337 | cheny992@mcmaster.ca | github/Anan1225 | Passionate about coding :)

# SKILLS

Languages: Python, Go, SQL, C++, Haskell, JavaScript, TypeScript, HTML/CSS

Databases & Platforms: UNIX, MySQL, MongoDB, NoSQL, PostgreSQL, AWS Cloud, Azure

Tools: Pytorch, Tensorflow, ETL, Docker, Snowflake, Minios, S3, Kafka, Airflow, Spark, Hadoop, Hive, Flink

### **EDUCATION**

## McMaster University, Hamilton, ON, Canada

Jan. 2024 - Present

Master of Science in Computer Science | Grade 3.85/4

## Northwestern Polytechnical University, Xi'an, Shaanxi, China

Sep. 2019 - Jul. 2023

Bachelor of Engineering in Computer Science | GPA 3.5/4.1

### EXPERIENCE

#### Research Assistant in McMaster Data Science Lab

Hamilton, Ontario

Prompt Engineering in Data Tasks

May. 2024 - Present

- Conducted research using **LangChain** to apply **LLMs** to data tasks, including GPT, LLaMA, and Mistral, leveraging **Python** and **TypeScript** for prototyping.
- Managed large-scale datasets using SQL and ETL pipelines, optimizing data processing and query efficiency.
- Accelerate LLM performance across varying input configurations and analyze inference capabilities.
- Develop techniques to compensate for potential background knowledge gaps, improving data interpretation.

# Open-source Contributor for Apache Answer

Remote

OSPP Program Participant

Jul. 2024 - Oct. 2024

- Developed a Slack user center integration plugin for Apache Answer with a modular code structure.
- Integrated Slack API for user authentication(login/sign-up) and notifications, expertise in third-party API.
- Implemented Slash Commands for users to submit questions directly from Slack, enhancing user experience.
- Collaborate with Apache Answer (13k-star) Community and successfully released in Version 1.4.1.

### Teaching Assistant in Principle of Programming Language

Hamilton, Ontario

Undergraduate Level 4 course tutorials

Sep. 2024 – Dec. 2024

- Reasoning about domain-specific languages, in-program analyses of correctness, security and efficiency.
- Taught principles of programming languages, focusing on **Haskell** and **functional** programming paradigms.
- Guided students in understanding syntax and semantics through hands-on exercises, including term evaluation and lambda calculus reduction strategies.

#### Projects

## Haskell-Based Expense Tracker

Jun. 2024

- Implemented **RESTful APIs** for **CRUD** operations on expenses and categories.
- Integrated a third-party currency conversion API to support multi-currency tracking.
- Designed a modular and type-safe architecture using Haskell's functional programming paradigms.

#### Wordboard, a Memorization App

Mar. 2024

- A full-stack web application featuring Go, Vue, Node, React, and Typescript, focusing on memorizing aid.
- Include a Golang API built on the framework Gin with a Vue 3 client logging in and updating user details.
- Redis and Postgres for data persistence and Google Cloud Pubsub for the event publication.
- Deploy inside of docker containers with routing provided by the **Traefik reverse proxy**.

# Django-Based Online Recruitment System

Nov. 2022

- Developed an online recruitment system using **Django**, **Python**, **SQL**, and **Bootstrap**.
- Integrated DingTalk API for seamless notifications and user management.
- Supported data backup, migration, and recovery for enhanced system reliability.
- Implemented a customizable management system for recruiters, interviewers, and candidates.