

SUMMARY

Has a wide range of software development project experiences, including full-stack, web application development, and game development using **React, Express, MySQL, MongoDB, PHP, JavaScript, JAVA, C++, and Python**. Have experience in machine learning technique like **TensorFlow** or **PyTorch**. Capable of using models like **CNN, RNN**, and **Transformer** to solve realistic problems. Be able to use **LoRA, Adapter, and Prompt tuning** to fine-tune open-source LLMs and CV models. Familiar with **LangChain** to build applications based on GPT's API.

EDUCATION

Washington University in St. Louis

Bachelor of Science in Computer Science

August 2022 - May 2026

GPA 4.0/4.0

WORKING EXPERIENCE:

DHC Software Co., Ltd (Python, Javascript, LangChain,)
Intern in Financial Big Data Technology Department: Software Developer
May 2023 - July 2023

- Developed an AI credit reporting system using **ChatGLM-6B**
- Trained the model with and **P-tuning** to meet the specific requirements, adding **Postgres** database using **Langchain**.
- Using **React** and **Django** to build an application to use the modal for credit assessment and anti-money laundering.

Cogno Technology (Langchain, GPT API, Flask)
Model fine-tuning specialist.
July 2023

- Creating a WeChat bot based on **Chroma** database and **GPT API** using **Langchain**. The bot can reply message based on docs, audio and image users send.
- Develop a secondary encapsulation of the **Langchain** framework and the OpenAI API using **Flask**, to achieve decoupling between the business end and the core logic. Transfer the previous business logic of Cogno.

Beijing Institute of Technology (Transformer, Pytorch, MobileNet v2)
Computer Science Elite Program: Researcher
Sep 2021 - Apr 2022

- Utilizing **Transformer** models from the field of Natural Language Processing (NLP) for MIDI music generation
- Employed the **MobileNet V2** model to identify music's style and emotion based on waveform images.

Guilin Experimental High School (C++, Algorithms and Data structures)
Computer Education Program: Olympiad in Informatics Teacher and Program Leader
July 2019 - July 2022

- Initiated a computer support teaching project at Guilin Experimental Middle School Affiliated with Capital Normal University, where I taught over **100 students and gave over 200+ lectures**.
- Taught information competition classes to help students learn competition algorithms and prepare for major international information technology competitions.

PROJECT EXPERIENCE:

Bill Split: Team Expense Manager (MongoDB, Node.js, React)
Mar 2023 - Apr 2023

- Developed the front end using **React**, ensuring a responsive and user-friendly design.
- Implemented the backend using **Node.js Express**, including expense management and database connectivity APIs.
- Designed and implemented the **MongoDB** database schema to efficiently store and retrieve expense data.

Gomoku Battle Program and AI (C++)
July 2021 - Sep 2021

- Implement the basic logic and interface of the Gomoku game.
- Use **C++** to write AI algorithms and optimize them using the Expectimax algorithm.
- Debug and test the program to ensure its stability and functionality.

Team Event Management System Similar to Google Calendar (PHP, AJAX, HTML, MySQL)
Apr 2023 - May 2023

- Use **PHP, JavaScript, HTML**, and **AJAX** to implement the system's essential functions, like adding events and joining teams to view team events.
- Implement the core logic of event management, including adding, deleting, and modifying events.
- Design a **MySQL** database to save users' data.

HONORS AND AWARDS

Distinction Rank (Top 5%) in 2021 AMC 12A
1st Place in Gold Division (out of 723 participants) of the USACO Contest
Top 2% of 148,880 students, National Olympiad in Informatics in Province (NOIP)
Dean's List at Washington University in St. Louis for all semesters.

Dec 2021
Jan 2020
May 2019
June 2023