Xiaoyan Bai

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OBJECTIVE

To apply for an internship/full-time in Machine learning, NLP or game design as a senior student majoring in Computer Science and planning to graduate in Winter 2024

EDUCATION

Shanghai Jiao Tong University   **Sep. 2020 – Present**
B.S. in Electronic and Computer Engineering   *Shanghai,China*

University of Michigan, Ann Arbor   **Sep. 2022 – Present**
B.S.E in Computer Science, Minor in Art and Design   *Michigan, United States*

RELEVENT COURSEWORK

- Computer Game Design and Development
- Machine Learning
- Intro to NLP
- Computer Vision

PROJECT EXPERIENCE

Poetry-Generating AI Design Research   **November 2022 – Present**
Researcher   *Michigan,United States*

- Pre-processed poetry data and fine-tuned language model
- Trained the language model using transformers and tokenizers to generate poems

Roboo   **March 2023 – April 2023**
Collaborator   *Michigan, United States*

- Created a puzzle-solving platform game where player can control bubbles to solve puzzles in Unity
- Gain an appreciation for the project management techniques required to prevent crunch-time at the end of projects.

Search Engine Implementing   **April 2023 – April 2023**
Team leader   *Michigan,United States*

- Built a search engine similar to Bing or Google
- Use information retrieval concepts like text analysis and link analysis, and parallel data processing with MapReduce

Rumination Research   **March 2022 – December 2022**
Team member   *Shanghai,China*

- Conducted a research in the relationship between visual imagery vividness and depression with Psychophy
- Contributed as a co-author for the paper "The Relationship between Visual Imager Vividness and Depression: A Mediation Model of Rumination", which was submitted to Journal of Affective Disorders

WORKING EXPERIENCE

Grader for EECS376: Foundations of CS | *University of Michigan*   **June 2023 - August 2023**
Teaching Assistant | *Massachusetts Institute of Technology Lincoln Lab*   **June 2023 - August 2023**

- Assisted the instructor's in the day-to-day coursework and be the resident 'expert' for the student teams
- Worked with instructor to help answer questions and help guide team towards meeting weekly challenges

Undergrad Research Assistant | *Prof. Agul Prakash's group, University of Michigan, Ann Arbor*   **May 2023 - Present**

- Contribute to NLP research regarding with inference time efficiency

Undergrad Research Assistant | *LIT Lab, University of Michigan, Ann Arbor*   **November 2022 - Present**

- Contribute to NLP research regarding with mechanics interpretability

AI Training Assistant Internship | *Emogent*   **December 2021 - January 2022**

- Precrossed data and finetuned Irene who is an AI serving in the museum to develop her language with NLP

HONORS

University of Michigan Winter 2023 Dean's Honor List   **14, June 2023**
China Collegiate Algorithm Design and Programming Challenge Contest | *Bronze Medal*   **20, March 2021**
Undergraduate Scholarship | *Awarded for excellent academic performances*   **September 2020 - August 2021**

SKILLS

Technical Skill: React, Huggingface, Pytorch, Unity, Python, Java, Matlab, C/C++