WEIKAI HUANG

Seattle, WA

📞 206-250-4396   ✉ weikaih@uw.edu   🔗 linkedin.com/in/weikai-huang   ⭘ github.com/weikaih04

The latest update time: 2024.3.05. For recent information, please check out my personal homepage

Education

University of Washington   **Sep. 2023 – June 2027**
Bachelor of Science in Computer Science (Prospective)   *Seattle, WA*
GPA: 4.0 Related Courses: CSE455: Computer Vision, CSE599: Data-centric ML, CSE498: Undergrad Research

Research Experience

UW CSE RAIVN Lab   **Oct 2023 – Present**
Research Assistant (Mentored by: Prof. Ranjay Krishna, PhD students Jieyu Zhang and Zixian Ma)   *Seattle, WA*
- Project 1: Benchmark for Tool-Use Ability in Large Language Models (LLMs) (ECCV 2024 submission)
  * Creating a Dataset for Testing Tool-Use Ability in LLMs.
  * Designing New Evaluation Criteria Based on Execution Results.
  * Programming with Pytorch, HuggingFace, Autogen framework.
- Project 2: Benchmark for Visual-Question Models
  * Designing a new dynamic benchmark for visual-question models like GPT4v, Blip, LLaVA, Qwenvl, etc
  * Runnning experiments on over 50 GPUs at AI2 cluster and UW Hyak clusters
  * Generate tasks from both real and synthetic sources, including 2D and 3D scenarios.

UW CSE Interactive Intelligence(I2) Club   **Oct 2023 – Present**
Research Lead   *Seattle, WA*
- Leading AutoGen MathGPT Project
- Enhancing GPT-4 in Solving Math Problems with Multi-agent Framework
- Project has been selected for presenting on the UW CSE I2 Club's official website as a major research project

UW Medicine Natural Language Processing for Oncology Research   **Sept. 2023 – Oct. 2023**
Undergraduate Researcher (Mentored by Prof. John Kang)   *Seattle, WA*
- Using state-of-the-art NLP models like Bert, GPT to analyze research trends and funds distribution for top conference: Astro (American Society for Therapeutic Radiology and Oncology)
- Full stack researching including collecting and cleaning dataset, selecting models, training model to result data analysis

Leadership / Extracurricular

Reserach Project Leader for UW CSE Interactive Intelligence(I2) Club   **Oct 2023 – Present**
Research Lead   *Seattle, WA*
- Leading AutoGen MathGPT project"
- Communicate with club organizer and presentation in weekly research meeting
- Co-work with several UW CSE and Math students and Volunteers from Pasedena City College

Awards

United States of America Computing Olympiad(USACO)   **2023**
Gold Prize   *Seattle, WA*
- Ranking top 5% over 2000 contestants
- Design and implement several graduate-level algorithms and data structures like: Complicated Dynamic Programming, Red-Black tree, and Segment tree to solve complicated computer science problems

National Olympiad in Informatics in Provinces(NOIP)   **2021**
First Prize   *Fujian, China*
- Ranking top 1% over 100000 contestants
- The most famous programming contests in China, solving complicated 4 quizs within 4 hours with algorithms implemented by C++

Skills and Communication

Technical: Python, Pytorch, HuggingFace, Java, C++, JavaScripts
Language: English, Chinese(Mandarin, Hokkien)