Yiyang (Ethan) Pan

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EDUCATION

University of Wisconsin Madison

Sep. 2024 - June 2027

 $BS\ in\ Computer\ Science$

Sep. 2024 – June 2021

Madison, WI

University of Rochester

Rochester, NY

BS in Computer Science — Dean's list — Major GPA: 3.9

Sep. 2023 - June 2024

TECHNICAL SKILLS

Languages: Java (5 years), Python (2 years), C (1 year), JavaScript, TypeScript, HTML/CSS, RISC-V Assembly, MySQL, Lisp Tools: Git, Docker, Google Cloud, Linux, VS Code, JetBrain, Conda, Valgrind, QEMU simulators, gdb debugger, Co-Pilot Frameworks & Libraires: PyTorch (Machine Learning), NumPy, CUDA, Junit5 (Unit Testing), JavaFX, NodeJS, React Relevant Coursework: Data Structures & Algorithms, Computation & Formal System, Computer Organization, Intro to AI

WORK EXPERIENCE

Software Engineer

June 2024 - Aug. 2024

Coco Tech Co.

Shenzhen, China

- Spearheaded the application of language models; Developed an online AI-based slide creation assistant tool for smart building designers using Python, Ollama, and React frameworks. Successfully reduced slide creation time by 30%.
- Learned concepts of Retrieval-Augmented Generation (RAG), LangChain, and prompt engineering techniques. (Demo)

Teaching Assistant

Jan. 2024 – May 2024

University of Rochester

Rochester, NY

- Directed a diverse cohort of 12 students, allocating 6 hours weekly to instruct on Java, data structures, and algorithms.
- Designed the workshop with original content and supplemented with Leetcode problems and personalized tutoring to solidify comprehension, resulting in a 20% average grade increase.

Research Assistant Nov. 2023 – Jan. 2024

Carnegie Mellon University in Qatar - SIGFUNSAI

Remote

- Managed, labeled, and cleaned over 2000 data points for Language Model fine-tuning, enhancing model performance by 10%
- Translated over 200 HumanEval test cases from object-oriented language into functional language such as **OCaml** to evaluate current models' performance on functional programming.

PROJECTS

Exploring Artificial Intelligence in Interactive Gaming | LLM, Unity, C#, API | (Demo)

Dec. 2023 – Jan. 2024

- Created a 3D **Unity** demo game showcasing the integration of **language models** for real-time poetry generation based on player input, exemplifying the fusion of **AI** with **gaming**. Strengthening testing and debugging skills.
- Cal-Glass: A Wearable Food Analysis Device | Python (OpenCV), AI, HTML, 3D | (Demo) Nov. 2021 Oct. 2022
 - Led an 8-member team to develop a wearable diet tracker using computer vision and AI, achieving 96.6% accuracy. Cultivating leadership, team work, and communication skill. The project won a silver award at China's Think Big contest.

Extracurricular

Wisconsin AI Safety Initiative - Member

2024

· Join periodic discussions on AI safety, ethics, and policy and participate in panels on AI safety research.

Undergrad Project Lab - Member

2024

Participated in a semester-long project to develop a Chrome extension that improves the experience of online learning
websites and enhances productivity. Insenfitying technical and project management skills.

Google Developer Student Club - Member

2024

 Participated in monthly workshops to learn about Google technologies and SWE skills, meet with peers to discuss projects and ideas.

UR Maker Club - Member

2023

• Participated in weekly workshops, learning about embedding system, IoT, C++, and computer engineering. Teaching other members Respberry Pi and Linux skills. Cultivating analytical and problem-solving skills from hands-on projects.

AWARDS

High School Mathematical Contest in Modeling (HiMCM) - Meritorious Award

2021

• Developed a customized student job recommendation system using mathematical modeling in Matlab.

