Max Kamachee

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Education

University of Wisconsin-Madison

Madison, WI

Majors: Computer Science with Honors, Data Science

GPA: 3.7, Dean's List

Courses: Algorithms, Probability, Data Structures, Machine Organization, Discrete Mathematics

Professional Experience

Quantum Intelligence Group

Remote

February 2025-Present

Software Engineering Intern

Improved system performance by over 50x by porting solutions into Elixir for concurrency gains and system fault tolerance

• Engineered ETL pipelines and RAG infrastructure with advanced retrieval techniques, enabling domain-specific AI assistants across diverse document sources

Autonomous Resilience & Controls Lab

Madison, WI

Software Developer

May 2025-Present

• Implementing LLM-driven navigation to the Jackal UGV Clearpath platform

Experimenting with safety filters and developing control theory for LLM-driven autonomous systems

UW-Madison Department of Computer Science

Madison, WI

Undergraduate Researcher - advised by Professor Sharon Li

November 2024-February 2025

• Advanced LLM hallucination detection research resulting in a published paper in a peer-reviewed journal by conducting an empirical investigation of uncertainty-based methods at the entity level (See Publications)

UW-Madison Division of Information Technology (DoIT)

Madison, WI

Information Technology Help Desk Support

March 2024-January 2025

 Reduced average technical issue resolution time by approximately 20% through providing comprehensive support and troubleshooting for students, faculty, and staff

UW-Madison School of Materials Science & Engineering

Madison, WI

Undergraduate Researcher - Benjamin Afflerbach and Dane Morgan

May 2024-November 2024

• Advanced materials science research by developing and implementing machine learning diffusion models to predict material properties without synthesis

ChangeUp

Los Angeles, CA

Software Development Intern

May 2022-October 2022

Increased donation processing efficiency by 25% through enhancing the Discord donation bot and performing extensive API testing using Postman

Publications

Min-Hsuan Yeh, Max Kamachee, Seongheon Park, and Yixuan Li. "Can Your Uncertainty Scores Detect Hallucinated Entities?", ICLR 2025 Workshop on Uncertainty and Hallucination of Foundation Models, https://doi.org/10.48550/arXiv.2502.11948

Projects & Involvement

Wisconsin AI Safety Initiative - Networking Lead, Technical Lead & Safety Scholar Leadership

Madison, WI

February 2024-Current

- Networking with industry and government professionals for various organizational objectives
- Facilitating the 8-Week AI Technical Safety Fundamentals program for new members that covers various AI Safety Topics
- Attending weekly Safety Scholar meetings to read frontier papers, develop technical research abilities, and participate in our research network

Advanced AI Demonstration with the Center for AI Policy

Washington D.C

Member

December 2024-February 2025

- Built a multi-agent system from scratch with relaxed and enhanced security pipelines to show how jailbreaks can be transferred through agents
- Presented our demonstration to congressional staffers at the Advanced AI Exhibition with the Center for AI Policy

Skills and Interests

Programming: Python (NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, Einops), Java, JavaScript, SQL, REST API Development (Postman), Git, C, Linux, R, Tableau, Elixir, React

Machine Learning: Azure, GCP, ETL Pipelines, HuggingFace, Agentic Systems, RAG Systems, Hallucinations

Languages: English (Fluent), Russian (Fluent), French (Advanced)

Other Skills: Public Speaking, Leadership, Project Management, Bilingual Communication, Research Interests: Water Polo, Mixed Martial Arts(MMA), Improv, Entrepreneurship, Travelling, Reading