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in Jackson Kunde
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Jackson Kunde

EDUCATION

- **University of Wisconsin—Madison** *2021 - 2025*
  Mathematics and Computer Science

- **Academic Awards**
  Dean's List (Fall 2021, Spring 2022, Fall 2022, Spring 2023, Fall 2024)

- **Menlo School (High School Diploma)** *2018 - 2021*
  Atherton, California
  – #45 High School for STEM in the USA.

EXPERIENCE

- **University of Wisconsin-Madison** *September 2023 - Present*
  Machine Learning Researcher (Lee Lab) Madison, Wisconsin
  – Conducting state-of-the-art research into language models under the guidance of Professor Kangwook Lee.
  – Current research focuses on multi-agent collaboration, which requires skills such as training, fine-tuning, and inferencing LLMs.
  – Meeting weekly to present and discuss extensively new ideas in deep learning. Prior discussions include **Multimodal language models, RLHF and DPO, and SSMs.**
  – Developing technical skills in Python and PyTorch. *September 2023 - January 2024*

  Machine Learning Researcher
  – Conducting research in the field of generative machine learning for materials informatics under the guidance of Professor Dane Morgan and postdoctoral student Ben Afflerbach.
  – Using high-throughput computing center to train and evaluate deep learning models to generate new material structures with specific target properties.
  – Conducting analysis of generated structures to verify target properties and discover novel structures.

- **Backblaze** *June 2022 - September 2022*
  Software Engineering Intern San Mateo, California
  – Software engineer on Backblaze's B2 cloud storage team.
  – Developed a command line tool to query our distributed database (Apache Cassandra) efficiently.
  – Conducted research on new technologies to improve the performance of the command line tool.
  – Used Ansible Playbook to automatically deploy the script to necessary servers.
  – **Technologies: Java, Python, Git, Ansible Playbook, CQL, Apache Cassandra, Gradle**

- **GameTime** *June 2021 - August 2021*
  Data Science Intern San Francisco, California
  – Created web-based interactive data visualizations for consumers to view ticketing data.
  – Conducted analysis on seat quality scores and ticket pricing to improve view-to-purchase conversion.

EXTRACURRICULAR ORGANIZATIONS

- **Wisconsin AI Safety Initiative** *September 2023 - Present*
  Operations Director Madison, Wisconsin
  – Deepening understanding of AI safety concepts and techniques through the rigorous study of academic papers and relevant media sources, staying informed about the latest advancements in the field.
  – Engaging in weekly discussions with fellow members, fostering a collaborative learning environment to dissect and critically evaluate state-of-the-art techniques for large language models.

- **Undergraduate Mock Trial Team** *September 2021 - Present*
  Financial Chair Madison, Wisconsin
  – Led the Undergraduate Mock Trial Team to an impressive ascent from 241st place in the nation to an outstanding 11th place in the nation during my first year on the team, showcasing strong dedication, strategic thinking, and effective leadership skills.
  – Recognized as one of the top 16 competitors in the country out of a competitive pool of 7,000 participants.
  – Proficient in synthesizing and analyzing extensive volumes of legal information, demonstrating the ability to distill complex case details and evidence into compelling arguments that captivate audiences and judges.
  – Collaborate effectively with teammates to build strong case strategies and practice intensive trial simulations, fostering a cohesive and supportive team environment that contributes to the team's competitive success.

Please visit my website for more, including coursework and projects.