Carson Ellis

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Education

University of Michigan   Ann Arbor, MI
Bachelor of Engineering, Computer Science   May 2024
Relevant Coursework: Conversational AI, Human-Centered ML, Intelligent Programming Systems, Programming Languages, Computer Vision, Operating Systems

Experience

Michigan AI Safety Initiative   Ann Arbor, MI
Organizer   Aug. 2023 - May 2024
Coordinated weekly discussions on AI Safety, fostering awareness and engagement.
Organized reading groups, guest speakers, and social events.
Facilitated AI Safety, Alignment, and Governance reading groups for 20+ participants.

Michigan Institute for Data Science   Ann Arbor, MI
Student Organization Committee Member   Aug. 2023 - May 2024
Maintained pathways for students interested in data science and AI safety careers.
Event Facilitator   Feb. 2024 - April 2024
Facilitated product cycle simulations for 30+ participants, improving understanding of AI product workflows and ethical product development.

Northern Tier High Adventure Program   BWCAW, MN
Remote Wilderness Guide   May 2023 - Aug. 2023
Led 150+ individuals on remote wilderness canoeing trips, enabling safety and self-sufficiency.
Customer Service Representative   May 2023 - Aug. 2023
Managed dozens of daily phone calls and in-person inquiries, resolving issues efficiently.
Wilderness Guide Trainer   May 2024 - June 2024
Trained dozens of individuals to guide remote wilderness canoeing excursions.

Technical Skills

Python, C, C++, PyTorch, C#/.NET, SQL, TensorFlow, Unreal, machine learning, bash, git

Technical Projects

Tensor and deep learning: Engineered a custom C++ library to support the training of 8+ deep learning models, focusing on classification and object detection.
Real-time event prediction: Preprocessed and cleaned 50M+ Reddit comments to build a machine learning pipeline capable of reliable real-time predictions.
Vision transformer: Designed and implemented Vision Transformer (ViT) models in Python, achieving 80% accuracy on 10K+ ASL data points.
Python program synthesis: Optimized speed and accuracy of a DeepMind synthesizer by 5%.
Language Learning App: Using gpt-3-turbo API, implemented a language learning app for 80+ languages. Trained backend NLP pipelines for user-intent classification and prompt construction.