CARTER SWARTOUT

Seattle, WA

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EDUCATION

B.S. Computer Science, University of Washington, STARS Program   Sept 2021 - June 2025

- Coursework: Deep Learning, Graduate Machine Learning, Graduate Natural Language Processing, ML Systems, AI, DSA, Modern Algorithms, Software Entrepreneurship, Computer Vision, Autonomous Robotics

EXPERIENCE

Technical Intern   September 2024 - Present
University of Washington HYAK (HPC)   *Seattle, WA*

- Testing multinode distributed LLM training on Hyak, UW's research supercomputer
- Developing tooling and improving usability for checkpointing and restarting jobs

Researcher - MultiHopQA Project   March 2024 - Present
AI DRG, University of Washington Information School   *Seattle, WA*

- Creating a multi-hop, question-answering dataset using large-scale knowledge graphs

Software Development Engineer Intern   June 2024 - August 2024
Amazon Web Services, Parallel Computing Service   *Seattle, WA*

- Developed and owned a beta-requested feature to make cloud HPC more accessible to customers
- Assisted the launch of AWS PCS through reducing development pain points

Interactive Intelligence VP   Sept 2022 - Sept 2024
Interactive Intelligence, University of Washington RSO   *Seattle, WA*

- Developed a comprehensive 12-week course on deep learning and neuroscience for UW and other universities
- Taught and assisted over 100 students in I2's course, lecturing on transformers, NLP, and ML

Researcher - LLM Bias Project   Sept 2023 - Jan 2024
SCALE Lab, University of Washington Information School   *Seattle, WA*

- Led research with a global team to detect alignment and biases in LLMs
- Created an NLP classification pipeline with LLMs using UW's HYAK, Azure, and Hugging Face

Food Bank Volunteer   Sept 2020 - Sept 2021
Port Townsend Food Bank   *Port Townsend, WA*

- Ensured essential food support for clients during the initial stages of the pandemic
- Wrote on behalf of the food bank to a local newspaper advocating for greater use of the organization

Congress-Bundestag Youth Exchange Ambassador   Sept 2019 - April 2020
U.S. Department of State   *Aachen, Germany*

- Awarded scholarship to represent the U.S. in Germany for a year with the U.S. Department of State
- Met and presented to United States and German officials on cross-cultural relationships

PROJECTS & ACTIVITIES

Writing Writing blog posts and notes on AI, Deep Learning, and UW courses at cswartout.com.

Bobby: Home Assistant, CSEED Buildspace Created a modular home assistant during CSEED's Buildspace.

Turing Tweets Built a game where users must differentiate between real and finetuned GPT-2 tweets.

Subreddit Simulator Fintuned GPT-2 on Reddit to simulate communities, filtered responses with BERT classifiers.