NOAH ZIEMS

nziems2@nd.edu

EDUCATION

University of Notre Dame

Ph.D Student in Computer Science NLP, Instruction Tuning, Information Retrieval Advised by Dr. Meng Jiang

Ball State University Bachelor of Science in Computer Science Honors College Overall GPA: Cum Laude (3.7/4.0)

EXPERIENCE

LeadSigma

Software Engineering Intern

 Created a backend using Ruby on Rails for a B2B Sales Software startup. I was also responsible for creating & testing the frontend(React) before there was a frontend team and writing AWS Lambda integrations in Python to be used with Salesforce. In this role I helped grow the revenue from \$0 to more than 6 figures.

PUBLICATIONS

LLM Explanations of Decision Trees for Network Intrusion	Detection	September 2023
Noah Ziems, Gang Liu, John Flanagan, Meng Jiang	NeurIPS 2	XAI Workshop 2023
• We show LLMs are capable of generating natural language explanate we apply this to network intrusion detection where decision trees are of explainability significantly hinders their usefullness in practice. strongly prefer and have better understanding when using LLM gen alternative rule-based approaches.	e effective (99% We show hur	% accuracy) but lack nan evaluators both

Large Language Models are Built-in Autoregressive Search Engines	January 2023
Noah Ziems, Wenhao Yu, Zhihan Zhang, Meng Jiang	ACL Findings 2023

• We show LLMs are capable of directly generating URLs to help answer questions in the open domain setting. I was responsible with taking the original research direction, designing experiments, generating the analysis and case studies, and writing the paper itself.

Embedding Mental Health Discourse for Community RecommendationMay 2023Hy Dang, Bang Nguyen, Noah Ziems, Meng JiangACL CODI Workshop 2023

Parathyroid Tumor Detection with Machine Learning	May 2021
Noah Ziems, Shaoen Wu, Jim Norman	IEEE GLOBECOM 2021

Security Vulnerability Detection Using Natural Language ProcessingJan 2021Noah Ziems, Shaoen WuIEEE INFOCOM 2021

SERVICE

Conference Reviewer

August 2020 - May 2021 Remote

2017-2021

2022-present

- $\cdot\,$ AAAI 2022
- $\cdot\,$ ACL 2023
- TKDE 2023
- $\cdot\,$ NeurIPS 2023

Teaching Assistant

- · Notre Dame Outstanding Graduate Teaching Assistant Award (2022-2023)
- · CSE 44567: Computer Security (Spring 2023)
- · CSE 40243: Compilers and Language Design (Fall 2022)