

NOAH ZIEMS

nziems2@nd.edu

EDUCATION

University of Notre Dame

2022-2026

Ph.D in Computer Science

NLP, Question Answering, Information Retrieval

Advised by Dr. Meng Jiang

Ball State University

2017-2021

Bachelor of Science in Computer Science

Honors College

Overall GPA: Cum Laude (3.7/4.0)

EXPERIENCE

Ball State University

February 2019 - May 2021

Research Assistant

Muncie, Indiana

- Responsible for thinking of and developing new research ideas related to Machine Learning that have a lasting and positive impact on humanity. Research areas included healthcare, neural architecture search algorithms, and natural language processing applied to raw code.

LeadSigma

August 2020 - May 2021

Software Engineering Intern

Remote

- 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.

Ball State University Honors College

May 2019 - August 2019

Honors Fellowship

Muncie, Indiana

- Explored literature and implemented many papers on neural architecture search algorithms for neural networks. More specifically, I spent an extended period of time implementing and investigating Neural Architecture Search, where the entire model architecture is itself differentiable and learnable.

FIRST AUTHOR PUBLICATIONS

Large Language Models are Built-in Autoregressive Search Engines

December 2022

Submitted to ACL 2023

Parathyroid Tumor Detection with Machine Learning

May 2021

Accepted to IEEE GLOBECOM 2021

Security Vulnerability Detection Using Natural Language Processing

Jan 2021

Accepted into IEEE INFOCOM 2021

SERVICE

Conference Reviewer

- AAAI 2023
- ACL 2023

Teaching Assistant

- CSE 40243: Compilers and Language Design (Fall 2022)
- CS124: Discrete Structures (Spring 2019)