

EDUCATION

- **University of Michigan** Ann Arbor, MI
BSE in Computer Science (ongoing); GPA: 3.95 *Fall 2015 – Spring, 2019*
 - **Relevant Coursework:** Operating Systems (EECS 482), Machine Learning (EECS 445), Computational Complexity (EECS 574), Theoretical Statistics (STATS 426), Honors Analysis (MATH 395)
 - **Honors/Awards:** Engineering Deans Honor List, University Honors, James B. Angell Scholar

EXPERIENCE

- **Bloomberg L.P.** New York City, NY
Data Science Intern *2018 Summer*
 - Implemented 20 state-of-the-art active learning query strategies from recent papers in the field
 - Tested strategies against diverse datasets in text classification, sentiment analysis, NER using Python Scikit-Learn
 - Designed a flexible framework for using active learning for ML teams within Bloomberg
- **University of Michigan** Ann Arbor
Research and Teaching Assistant *2017 Fall - Present*
 - **Teaching Assistant - Operating Systems (2017), Artificial Intelligence (2018):** Led discussion of 20 students teaching operating concepts - networking, multithreading, networks, threads, synchronization primitives, etc.
Led discussion of 20 students teaching AI concepts - search, logic, planning, machine learning etc.
Final instructor ratings: Top 25% in overall instruction effectiveness
 - **Research Assistant - Human-in-the-loop Artificial Intelligence:** Developed real-time, collaborative, synchronous text annotation application (Meteor JS, MongoDB) with a partially trained NLP pipeline (Python Scikit-learn)
Led a team of undergraduates to develop a novel active learning ML model training pipeline
- **Clinic Inc.** Ann Arbor
Software Intern *2017 Summer*
 - Developed an automated crowd data collection library through the Amazon MTurk API in Python, was used to collect 10,000 natural language queries for a conversational AI
 - Created tools to detect and visualize topics from natural language queries using unsupervised learning methods - clustering, TfIdf, LDA t-SNE - in Python

PROJECTS

- **Distributed File System** Ann Arbor
Team member *2017 Spring*
 - Developed in C++ with TCP protocol and AES encryption support
 - Supported RPC's for multiple users and concurrent reading/writing/deleting of files/directories using C++11 threading and memory management features
- **Fathom - an AI assistant for helping students study** Ann Arbor
Engineering Lead *2017 Summer*
 - Created a question generation feature through NLP sentence classification and entity recognition.
 - Implemented question verification system using a BiLSTM deep neural network trained on the SNLI corpus
 - Finalist in the Campus of the Future competition

SKILLS

- **Programming Languages:** C++, Python, Javascript, Haskell, SQL, Matlab, HTML, CSS
- **Frameworks:** Meteor JS, Flask, Jinja
- **Software/tools:** Linux, Git, vim, gdb, LaTeX, MongoDB