

## EDUCATION

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- **University of Michigan** Ann Arbor, MI  
*PhD in Computer Science (ongoing)* Fall 2019 –
  - **Advisors:** Walter Lasecki, Honglak Lee
- **University of Michigan** Ann Arbor, MI  
*BSE in Computer Science; 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 Dean's Honor List, University Honors, James B. Angell Scholar

## EXPERIENCE

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- **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

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- **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

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