Anthony Liu

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Class of 2019 : seeking Full-Time position for 2019

EDUCATION

- **University of Michigan**   Ann Arbor, MI
  BSE in Computer Science (ongoing); GPA: 3.95   *Fall 2015 – Winter. 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 Intelligience (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 Intelligience**: 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

- **Clinc 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 unsupervized 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