McCoy Doherty

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Summary

Recent graduate with an academic background in data science and passion for the full spectrum of computation, seeking long-term opportunities in analytics & software-development.

Education

Masters of Science in Informatics, 4.0 GPA   University of Michigan, 2021
Bachelors of Science in Informatics, 3.2 GPA   University of Michigan, 2020

Work Experience

Programming Assistant   *University of Michigan*   May 2019 - Present
- Development aid for a new online Masters of Applied Data Science program
- Assists with dataset curation, assignment design, testing code, and beta testing courses
- Configures programming environments and autograding systems

Student Instructor   *University of Michigan*   Jan 2019 - May 2019
- Provided teaching support to approx. 200 intermediate-programming-course students
- Conducted weekly lab sessions reiterating / detailing course topics including:
  - APIs, Bash, Databases, Data Structures, Git, OAuth, Python, SQL, Web Scraping
- Held weekly office-hour & debugging sessions to assist students one-on-one

Resident Advisor   *University of Michigan Housing*   Aug 2017 - May 2019
- Supported Stockwell Hall's approx. 400 residents both logistically and personally
- Responsible for community engagement, event planning, conflict resolution, crisis management, policy-enforcement, inclusivity, front-office shifts, and on-call shifts

Projects

- *Communally-Comparative Entity-Level Sentiment* -- I gathered text data from subreddits of 3 topical clusters (mental health, substance abuse, and rehabilitation), utilized Google Cloud NLP APIs to extract entities, aggregated variations using regular expressions, and compared inter-community sentiment towards topics including sleep and therapy
- *Git-Job Search Engine* -- Scraped diverse tech-job postings from LinkedIn, sanitized them with Pandas & RegEx, used SpaCy to train custom NER system to extract skills, languages, etc. from postings, and compared effectiveness of search-ranking algorithms
- *Amazon Fake Review Detection* -- Explore viability of binary classification of Amazon reviews as fraudulent vs legitimate by using Pandas for cleaning & feature engineering and Scikit-Learn for modeling. Achieved near-90% recall while retaining F1 scores >80

Skills

- *Proficient*:   CSS, Data Mining, HTML, Machine Learning, NLP, Python, Regex
- *Competent*:   Bash, Excel, Express, Git, Javascript, React, SQL
- *Familiar*:   AWS, C++, Docker, MongoDB, Node, WebPack