Thomas Day

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EDUCATION

University of Michigan **Ann Arbor, MI**

- **College of Literature, Science, and the Arts**: Bachelor of Science, Computer Science **April 2023**
- **Stephen M. Ross School of Business**: Bachelor of Business Administration
- **GPA**: 3.600 / 4.000
- **Relevant Coursework:** Data Structures and Algorithms, Web Systems, Database Management Systems, Intro to Computer Organization, Foundations of Computer Science, Business Analytics and Statistics, Advanced Analytics, Multivariable and Vector Calculus, Applied Linear Algebra

TECHNICAL SKILLS

Proficient: C/C++, Python, Spark, Pandas, R, SQL, HTML, Flask, REST, Git, bash, Unix, Excel, Microsoft Office Suite, RegEx
Familiar: ML & Deep Learning, Distributed Systems, MATLAB, CSS, JavaScript, React, AWS

PROFESSIONAL EXPERIENCE

Michigan Ross Business School **May 2020 – September 2020**
Research Assistant under Professors Aradhna Krishna, S Sriram, and H. V. Jagadish

- Developed Python scripts using Spark to analyze Twitter data from the Decahose stream at scale with Twitter's APIs and an HPC cluster
- Wrote algorithms to filter tweets by various features using RegEx, content metrics, and embedded data
- Reviewed literature related to brand awareness in the context of social media to inform and direct our research goals

ACTIVITIES

Microsoft TEALS Program
Volunteer Teacher and Teacher Assistant **June 2021 – Present**

- Taught fundamentals of computer science to a class of 13 high schoolers using Snap! and Python programming languages
- Formulated lesson plans, lab materials, and projects with a teaching team for a year of class
- Worked with students to build their programming, debugging, and problem-solving skills

HackBlue **January 2020 – May 2021**
Member

- Drove interest in computer science by working with underprivileged middle school students
- Rebuilt the HackBlue website using HTML, CSS, and JavaScript to better serve the organization's mission
- Designed programming lessons tailored to the students to be engaging, fun, and educational

Michigan Finance and Mathematics Society **January 2020 – Present**
Member

- Leveraged research and data to create and present stock pitches for the club to invest and add to its portfolio
- Applied financial, mathematical, and statistical models to evaluate companies and investment opportunities

PROJECTS

Machine Learning Sonnet Generator

- Designed and implemented a machine learning program that utilizes data from Shakespeare's works to create an original Shakespearean sonnet
- Led a team of 4 in development, testing, and debugging
- Streamlined code, increasing readability and resulting in 800% faster execution