

Thomas Day

44328 Whitefish Bay • Clinton Township, MI 48038 • (586) 945-8054 • tvday@umich.edu
Website: tvday.github.io • LinkedIn: linkedin.com/in/thomas-v-day • GitHub: github.com/tvday

EDUCATION

University of Michigan

Ann Arbor, MI

April 2023

- **College of Literature, Science, and the Arts:** Bachelor of Science, Computer Science
- **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, C#, Spark, Pandas, R, SQL, HTML, Flask, REST, Git, Bash, Unix, Excel, Microsoft Office Suite, RegEx, Unity

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 a High-Performance Computing cluster
- Created a time series of tweets by extracting embedded retweets since the Decahose stream was stored at tweet creation where all content metrics are zero
- Filtered tweets by text content using RegEx, content metrics, and user data
- Reviewed brand awareness literature and peer reviewed papers in social media context to inform and direct research goals

ACTIVITIES

Microsoft TEALS Program

June 2021 – Present

Volunteer Teacher and Teacher Assistant

- Taught fundamentals of computer science to a class of 17 high schoolers using Snap! and Python programming languages
- Formulated lesson plans, lab materials, and projects with a teaching team for a year of class
- Guided and mentored 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 qualitative and quantitative 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