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**: 3.665 / 4.000
- **Relevant Coursework:** Web Systems, Mobile App Development, AI for Business, Software Engineering, Database Management Systems, Intro to Machine Learning, Data Structures and Algorithms, Foundations of Computer Science, Business Analytics and Statistics, Advanced Analytics, Big Data in Finance, Fintech Innovations

TECHNICAL SKILLS

Proficient in: Python, Go, C/C++, R, SQL, JavaScript, HTML, CSS, Git, Bash, Unix

Experience with: C#, Java, Swift, Agile, Behavior Driven Development, Jira, AWS, RegEx, REST APIs, Gin, Flask, React, Unity, Spark, Pandas, ML & Deep Learning, Distributed Systems, Excel, Microsoft Office Suite

PROFESSIONAL EXPERIENCE

NCR Corporation **Atlanta, GA**

Software Engineer Intern **May 2022 – August 2022**

- Architected order status board and self-serve kiosk features to improve the user experience for direct and indirect customers
- Led other interns in creating a full stack application to integrate cloud APIs with internal POS and management systems to streamline menu creation and deployment
- Implemented a WebSocket server application and a REST API using Go by leveraging the Backend-For-Frontend design pattern
- Gathered data to rearchitect API integration to support future work and showcased a prototype that addressed technical debt in the current solution

Michigan Ross Business School **Ann Arbor, MI**

Research Assistant **May 2020 – September 2020**

- 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 utilizing embedded data to enable the examination of user engagement over time
- Filtered tweets by text content using RegEx, content metrics, and user data
- Reviewed social media and brand awareness literature and peer reviewed papers to inform and direct research goals

ACTIVITIES

Microsoft TEALS Program **Remote**

Volunteer Teacher and Teacher Assistant **June 2021 – April 2023**

- Teach AP Computer Science A and Java to a class of 16 high school students to prepare them for the AP test and college level computer science courses
- Encouraged engagement in CS by teaching programming fundamentals to a class of 17 high schoolers
- Formulate lesson plans, lab materials, and projects with a teaching team of four for a year of class
- Advise and mentor students to build their programming, debugging, and problem-solving skills

Michigan Ross Business School **Ann Arbor, MI**

Teacher Assistant: Data Mining and Business Analytics | Advanced Big Data Analytics **September 2022 – April 2023**

- Assisted the professor in teaching machine learning and advanced analytics concepts to over 100 undergraduate and graduate students
- Created documentation and tutorials for students and future lesson plans
- Advanced students' understanding of class content through in-class assistance and individual support in office hours
- Graded assignments to evaluate student progress and provide feedback

PROJECTS

Dragon Quest Monsters 3 Wiki App

- Independently developed a full-stack application using PostgreSQL, Go, TypeScript, and React to allow users to easily access game data and strategies
- Created a customized adaptable table component with intuitive search, filter, and sort functionalities for user-friendly navigation of game data
- Utilized HTML and CSS to display parent-children relationships in an expandable and interactable tree to expedite synthesis planning, a central game mechanic

Notes Visualizer App

- Designed and implemented an iOS app that scans a handwritten journal, parses keywords and dates, and shows related media in AR, including the user's own photos and videos