

RYAN DABBS

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Education

University of Maryland, College Park

Aug. 2021 – May 2025

B.S. in Computer Science and B.S. in Finance (Double Degree)

GPA: 3.67

Honors College - University Honors Program

Technical Skills

Prog. Languages: Advanced: Java, Python | Intermediate: JavaScript, HTML, CSS, C | Basic: SQL, R

Developer Tools: Linux, Windows, Git, Jira, VS Code, Jupyter Notebook, Github, Gitlab, Docker

Technologies: AWS, Cypress, PostgreSQL, scrum, Node.js, Express, MongoDB, Bloomberg Terminal

Experience

University of Maryland - Smith School of Business

January 2024 – Present

Teaching Assistant, Quantitative Financial Analysis

College Park, MD

- Host weekly office hours to assist 40+ students with Python projects and concepts in machine learning and data analysis
- Provide support on an online Q&A platform, troubleshooting Python code and resolving questions outside of class hours

Research Assistant, AWS and Cloud Computing

- Studied for AWS Cloud Practitioner Certification and helped professor compile resources to develop a new AWS course
- Developed projects for students to gain experience with AWS services, including website hosting on S3 and Lightsail

Deloitte

June 2024 – July 2024

Technology Intern, Risk and Financial Advisory

McLean, VA

- Tested internal and external client applications to verify data integrity, IT compliance, and internal controls for accurate financial statement reporting, which included user sampling for access management verification and risk evaluations
- Spearheaded the development of a python automation script that leveraged pandas to streamline the guided risk assessment process, which originally involved manually sifting through over 50 excel sheets
- Learned about the Software Development Lifecycle by observing and analyzing client legacy systems and other systems undergoing migration to cloud platforms such as AWS and Microsoft Azure

Center for Advanced Transportation Technology Laboratory

January 2023 – August 2023

Software Quality Assurance Engineer Intern

College Park, MD

- Conducted regression tests on traffic data visualization tools to find errors and track resolution, helping ensure proper functionality of the company's data products and improving the overall user experience
- Independently learned Git, Cypress, and JavaScript to develop and review automated scripts testing the company's web applications, which expanded coverage of use cases and reduced end-to-end test execution time by 150 seconds
- Designed and documented test cases for various web applications using Jira, enhancing web server reliability

Projects

DC Food Desert Simulation - Hoya Hacks (Georgetown University Hackathon)

January 2025

- Developed a 3D simulation to visualize food insecurity in DC and test the placement of new grocery stores
- Built a full-stack web app with TypeScript, Python, Next.js, MongoDB, MapBox GL, Turf.js, Tailwind CSS, and Vercel
- Simulates people walking to their nearest grocery store and dynamically recalculates routes when a new store is added
- Retrieved and cleaned geospatial datasets from OpenData DC and used MapBox GL to render a 3D interactive map

USA Weather App

November 2024 – December 2024

- Created a full-stack web application using HTML/CSS, JavaScript, MongoDB, Nodejs, Express, and Weatherstack API
- Developed features allowing users to query for current weather conditions by zip code, create their personal weather watch list, and add as well as delete from their customizable watch list

Stock Market Analyzer

July 2024 – October 2024

- Built a web application using Python, Flask, and HTML/CSS for its functionality and user-interface; Alpha Vantage API for real-time data retrieval; Matplotlib to visualize historical trends; AWS Lightsail and Docker for hosting/deployment
- Created a search feature allowing a user to input a ticker symbol and will display corresponding stock information, and a recommendation feature that observes 50 vs 200-day moving averages, Relative Strength Indices, and P/E ratios

Leadership / Extracurricular

Alpha Kappa Psi (Business Professional Fraternity)

September 2022 – Present

- Spearheaded fundraising campaign to raise more than \$1000 over the course of 3 weeks
- Collaborated with team members to conduct market research and financial analysis for consulting case competitions

Consult Your Community (non-profit) - Vice President of Finance

August 2021 – January 2024

- Managed budget requests and organized fundraising events for 100+ members to secure over \$2000 for the club
- Created a file organization system for vendor invoices, club transactions, and client Statements of Work