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, React, PostgreSQL, scrum, Node.js, Express, MongoDB, Bloomberg Terminal

Experience

University of Maryland - Smith School of Business   **September 2024 – Present**
Teaching Assistant, Quantitative Financial Analysis   *College Park, MD*
- Helping students debug coding projects in Jupyter Notebook, ensuring understanding of Python and data analysis
- Hosting weekly office hours, helping 40+ students with concepts including Python, machine learning, and statistics

Research Assistant, AWS and Cloud Computing   *College Park, MD*
- Achieved 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 Cucumber and Jira, enhancing web server reliability, requirement traceability, and ensuring alignment with stakeholder needs/expectations

Projects

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

European Soccer Match Predictor   **May 2024 – August 2024**
- Leveraged Beautiful Soup and Requests libraries to scrape historical European soccer league match data from fbref.com, cleaned and processed the data using pandas, and analyzed important features
- Used scikit-learn to implement a Random Forest Classifier on preprocessed data to predict outcomes for future matches

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