Ryan Dabbs

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Education

University of Maryland, College Park <div align="right">**Aug. 2021 − May 2025**</div>
B.S. in Computer Science and B.S. in Finance (Double Degree) <div align="right">**GPA: 3.67**</div>
Honors College - University Honors Program

Technical Skills

Prog. Languages: Advanced: Python, Java | Intermediate: JavaScript, HTML, CSS, R | Basic: C, SQL
Developer Tools: Linux, Windows, Git, Jira, VS Code, Jupyter Notebook, Github, Gitlab, Docker, RStudio
Technologies: Flask, MongoDB, Vercel, AWS, Cypress, Node.js, Express, PostgreSQL, Bloomberg Terminal

Experience

University of Maryland - Smith School of Business <div align="right">**September 2024 − Present**</div>
Teaching Assistant, Quantitative Financial Analysis <div align="right">*College Park, MD*</div>
- 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 <div align="right">**June 2024 − July 2024**</div>
Technology Intern, Risk and Financial Advisory <div align="right">*McLean, VA*</div>
- 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 <div align="right">**January 2023 − August 2023**</div>
Software Quality Assurance Engineer Intern <div align="right">*College Park, MD*</div>
- 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
- Documented and updated test cases for various web applications using Jira, enhancing web server reliability

Projects

Fleeting Moments <div align="right">**February 2025 − May 2025**</div>
- Created a full-stack web application using Python, Flask, HTML/CSS, MongoDB, and Google Maps API
- Allows users to create, search, and comment on geo-tagged "moments", with all information stored in MongoDB
- Implemented user authentication with Flask-Login, allowing anonymous and signed-in posting with profile management

DC Food Desert Simulation - Georgetown University Hackathon <div align="right">**January 2025**</div>
- Developed a 3D simulation of people walking to their nearest grocery stores and for testing new grocery store placement
- Built a full-stack web app with TypeScript, Python, Next.js, MongoDB, MapBox GL, Turf.js, Tailwind CSS, and Vercel
- Retrieved and cleaned geospatial datasets from OpenData DC and used MapBox GL to render a 3D interactive map

Market Watch - Stock Market Analyzer <div align="right">**July 2024 − October 2024**</div>
- Built a web application using Python, Flask, and HTML/CSS; Alpha Vantage API for data retrieval; Vercel for hosting
- Allows users to search ticker symbols and view graphs and metrics of price history, moving averages, and P/E ratios
- Implemented local caching and request throttling to reduce redundant API calls and avoid rate limitations

Leadership / Extracurricular

Alpha Kappa Psi (Business Professional Fraternity) <div align="right">**September 2022 − Present**</div>
- 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 <div align="right">**August 2021 − January 2024**</div>
- 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