

# 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: 3.64

Honors College - University Honors Living Learning Program

### Relevant Coursework

- Intro Data Science
- Intro Machine Learning
- Intro Databases
- Adv. Data Structures
- Algorithms
- Applied Prob and Stats
- Linear Algebra
- Programming Languages

## Technical Skills

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

**Developer Tools:** Linux, Windows, Git, Jira, VS Code, Jupyter Notebook, Github, Bitbucket

**Technologies/Frameworks:** Microsoft Office, Cypress, AWS, PostgreSQL, Scrum, Bloomberg Terminal

**Libraries:** pandas, NumPy, Matplotlib, scikit-learn, yfinance, BeautifulSoup

## Experience

### Robert H. Smith School of Business

January 2024 – Present

*Research Assistant, AWS and Cloud Computing*

*College Park, MD*

- Worked under Professor Zeinab Karake, compiling learning resources for the development of a new AWS course
- Developed practice projects for students to gain experience with AWS services, including hosting websites on Amazon S3
- Preparing and working toward obtaining my AWS Cloud Practitioner Certification

### Deloitte

June 2024 – July 2024

*Risk and Financial Advisory - Technology Intern*

*McLean, VA*

- Tested SOX relevant applications to ensure accuracy and effectiveness of the client's financial statement reporting and internal controls, which included conducting risk evaluations and user sampling for access management verification
- 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
- Filtered and cleaned client datasets by using macros in VBA, helping expedite data processing tasks in Excel

### Center for Advanced Transportation Technology

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, Bitbucket, Cypress, and JavaScript to develop and review automated scripts testing the company's web servers, 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 servers using Cucumber and Jira, enhancing web server reliability, requirement traceability, and ensuring alignment with stakeholder needs/expectations

## Projects

### Stock Market Analyzer | Python, pandas, Matplotlib, yfinance, scikit-learn, Flask

July 2024 – Present

- Developed a front-end interface allowing users to input stock ticker symbols, and used python's yfinance library to fetch and display real-time stock prices as well as historical data visualized through graphs
- Built a machine learning model predicting S&P500 stock movements with 57% accuracy, by implementing a Random Forest classifier that uses rolling averages and back-testing for improved precision
- Developing a recommendation feature that analyzes company/industry ROIC, WACC, P/E ratio, and growth potential

### European Soccer Match Predictor | Python, pandas, BeautifulSoup, scikit-learn

May 2024 – August 2024

- Utilized BeautifulSoup and Requests libraries to scrape historical European soccer league match data from fbref.com, cleaned and processed the data using pandas, and exported it to a csv file
- Implemented a Random Forest Classifier on preprocessed data to predict the outcomes of future league matches

## Leadership / Extracurricular

### Alpha Kappa Psi - Business Professional Fraternity

September 2022 – Present

*Member*

*University of Maryland*

- 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)

August 2021 – January 2024

*Vice President of Finance*

*University of Maryland*

- 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