Ryan Dabbs

10208 Cavanaugh Farm Way, Rockville, MD 20850

📞 240-408-9296 ✉ ryandabbs88@gmail.com 🔗 linkedin.com/in/ryan-dabbs ⬡ github.com/rdabbs88

Education

University of Maryland, College Park — **Aug. 2021 – May 2025**
Bachelor of Science in Computer Science and Finance (Double Degree) — *GPA: 3.64*
Honors College - University Honors Living Learning Program

Relevant Coursework

- Quant Financial Analysis
- Machine Learning
- Adv. Data Structures
- Applied Prob and Stats
- Data Science
- Databases
- Algorithms
- Linear Algebra

Technical Skills

Languages: Python, Java (Advanced) | SQL, JavaScript, Ruby, Racket (Intermediate) | C, C++, HTML/CSS (Beginner)
Developer Tools: Linux, Windows, Git Bash, Jira, VS Code, Jupyter Notebook, pgAdmin, Github, Bitbucket
Technologies/Frameworks: cypress, PostgreSQL, Microsoft Office, scrum, Amazon S3, Bloomberg Terminal, Docker
Libraries: pandas, NumPy, Matplotlib, scikit-learn, yfinance, Beautiful Soup

Experience

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/cleaned client datasets by using macros in VBA, helping expedite data processing tasks in Excel

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

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 test scripts in a CI/CD environment, 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 Beautiful Soup library to scrape match data from the top 5 European soccer leagues for the past 3 years, used pandas to clean and filtered the data, and finally exported it into a csv file
- Implemented a Random Forest classifier with various predictors to predict the outcomes of future league matches

Leadership / Extracurricular

Alpha Kappa Psi - Business Professional Fraternity — **September 2022 – Present**
Fundraising Committee 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