ANDREW HOLLAR

drewhollar1@gmail.com | 540-282-2612 | LinkedIn: www.linkedin.com/in/andrew-hollar

Education

University of Virginia – Charlottesville, VA   **Expected Graduation: December 2024**
Bachelor of Science in Computer Science

- Relevant Courses: Software Development Essentials 1 & 2, Computer Systems and Organizations 1 & 2, Data Structures and Algorithms 1 & 2, Discrete Mathematics 1 & 2, Intro to Cybersecurity, Software Testing, Human Computer Interaction, Programming Languages for Web Applications, and Artificial Intelligence
- Trigon Engineering Society Secretary

Work Experience

Software Intern, Khayelitsha's Finest Wines, Cape Town, WC   June 2023 – July 2023

- Led a select team to create and deliver a wine store website employing JavaScript, React, HTML, and CSS.
- Demonstrated expertise in crafting an intuitive and user-friendly online shop, enabling customers to browse, order, and purchase premium wine selections.
- Implemented Firebase integration to manage all orders and newsletter subscriptions, ensuring efficient data tracking and real-time analytics for enhanced customer engagement and business insights.

Software Intern, Actualize Consulting, Reston, VA   June 2022 – October 2022

- Implemented RPA Database initializations to streamline client profiles in Kyriba, resulting in a massive increase in efficiency.
- Collaborated with coworkers to further debug and optimize existing RPA UI pathing.
- Created cybersecurity questionnaire database for internal use.
- Actively participated in virtual client calls to gain hands-on experience and a deeper understanding of effective client interaction.

Projects

Machine Learning Fitness Tracker   Fall 2023

- Engineered a Python-based Machine Learning Fitness Tracker, capable of counting repetitions and distinguishing between five strength training exercises using accelerometer and gyroscope data.
- Implemented feature engineering techniques such as window-based mean and standard deviation calculations, Fourier transformation, and K-means clustering to further optimize data for prediction.
- Conducted predictive modeling and divided data into training and test sets, employing forward feature selection with a decision tree, and optimizing hyperparameters through grid search.
- Evaluated data with various models including neural networks, random forests, KNN, decision trees, and Naive Bayes, with random forest emerging as the most effective.

UVA Event Coordinator   Fall 2023

- Developed a web application designed to facilitate the management of various events on UVA campus.
- Designed the platform using the Django framework, while leveraging Heroku for databasing.
- Integrated Google Maps, Google Geocoding, and Google Login API to provide authenticated users with real-time location data displaying the location and details of active events.
- Led team as Scrum Master, effectively utilizing the Scrum methodology and organizing sprints to ensure timely and efficient project delivery, while fostering an agile development environment.

Cryptocurrency Dashboard   Fall 2023

- Developed an interactive cryptocurrency dashboard, utilizing JavaScript, React, HTML, and CSS to deliver a dynamic user experience.
- Integrated Rapid API's Crypto News Live & Alpha Vantage to provide users with the latest cryptocurrency news and real-time exchange rates for popular cryptocurrencies.

Skills

In order of proficiency:
Programming Languages: Python, HTML, CSS, Java, C, JavaScript, SQL, MATLAB, Assembly x8
Miscellaneous: GitHub, Git, React, Bootstrap, Django, Pandas, Power BI, Scikit-learn, Matplotlib, Selenium, Firebase, Microsoft Office, Google Workspace, Heroku, Junit