Caleb Dale Blomquist

Bel Air, MD 21014, (443)-360-1034, blomquist.caleb@gmail.com
gitHub: c-blomquist   LinkedIn: caleb-blomquist

Education   *Towson University: Anticipated completion of Fall 2023*
- Bachelor of Science in Computer Science, track in Software Engineering, Music Minor
- Upper-Level Computer Science Courses GPA: 3.845   Overall GPA: 3.632
- Relevant Coursework: Requirements Analysis and Modeling**,** Artificial Intelligence, Software Quality Assurance and Testing, Object Oriented Design and Programming, Intro to Software Engineering, and Data Structures/Algorithms.

Summary   **-** Strong interest in obtaining new skills and experiences. Aiming to improve technical knowledge through creating a personal website and exploring data analysis through NASA data sets and open-source software to study astronomical data management.
- Effective group experience with both leading and being an effective member of a group through leadership opportunities and group work throughout education.
- Goal to increase skills as a Software Engineer about the technical aspects of software development, and benefit employer with skills learned from research and university.

Technical Experience

- Experienced with Java, Python, git, and Agile practices, with some experience with Jupyter Notebook (Numpy, Matplotlib, Pandas), HTML, CSS, JavaScript, React, and C.
- Worked in a Software Engineering research group alongside other Undergraduate and Graduate researchers on machine learning projects using Python.
- Undertaking personal project of working on public NASA datasets using Python.

Work Experience

Towson University Software Engineering Research Member (Jan 2022 – Present)
- Researched using a Convolutional Neural Network to classify source code as vulnerable or not, after converting that code into an image that the CNN can analyze.
- Worked with libraries in python, and different 3rd party tools to create the image data from the source code and training the model with those created RGB images.
- Collaborated with peers in the research group on differing projects.

Towson University Stage Manager/Audio Technician (Winter 2017 – Present)
- Worked with others to help the performance run smoothly as the performer's needs are met after discussing with them and learning their needs before the performance.
- Learned flexibility to the ever-changing needs of a client throughout the event and gained communication and organization skills needed to keep everything running.

Additional Experience and Awards

Association of Old Crows Achievement in Science & Technology Winner (Spring 2023)
Member of the Towson University Software Engineering Club (Fall 2021 – Present)
Member of Kappa Kappa Psi, Music service organization (Fall 2018 – Present)
- Served as President (Fall 2019-Spring 2020) and Secretary (Fall 2021).