

# Caleb Dale Blomquist

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GitHub: c-blomquist LinkedIn: caleb-blomquist

**Education** *Towson University: Fall 2017; Anticipated completion: Fall 2023*

I will be earning a Bachelor of Science in Computer Science with a track in Software Engineering.

**Notable Courses:**

Requirements Analysis and Modeling (Fall 2023)

Artificial Intelligence (Fall 2023)

Software Quality Assurance and Testing (Spring 2023)

Object Oriented Design and Programming (Spring 2023)

Intro to Software Engineering (Fall 2022)

Data Structures/Algorithms (Spring 2022)

I also will be earning a Minor in Music as I pursue my differing interests in life.

Upper-Level Computer Science Courses GPA: 3.845

Overall GPA: 3.632

**Employment** *Towson University Software Engineering Research Member (Jan 2022 – Present)*

I have gained knowledge and experience from this position as I research the topic of 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. This involves working with libraries in python (including NumPy and PyTorch), and different 3<sup>rd</sup> party tools to take source code, transform it into a program dependency graph and create the image.

*Towson University Stage Manager/Audio Technician (Winter 2017 – Present)*

I have gained communication and organization skills working as a stage manager and sound technician for the Towson University Music Department. I have learned how to work with others to help the performance run smoothly.

**Extra-Curricular**

*Member of the Towson University Software Engineering Club (Fall 2021 – Present)*

*Member of Kappa Kappa Psi, Music service organization (Fall 2018 – Present)*

I have served as President (Fall 2019-Spring 2020) and Secretary (Fall 2021).

**Awards**

*Alliance of Old Crows Scholarship Winner (Spring 2023)*

**Technical Experience**

I have the most experience with Java, Python, git, and Agile practices, with some experience with C, HTML, CSS, JavaScript, React, and Jupyter Notebook. I have worked

in a research group at Towson University and have worked alongside other Undergraduate and Graduate student researchers with their projects too.

**Strengths**

One of my strengths is being interested in obtaining new skills and learning new concepts. I am aiming to improve my technical knowledge and experience through creating a personal website and leetcode exercises. This strength has enabled me to achieve good grades within the many courses I have taken at Towson University.

I also have the strength of having experience working with, and leading, a group of people as I have served as the president, and secretary of a service organization at Towson University, and done many group projects during my studies. These all have given me the perspective to be successful in a group no matter the role I play in the overall group.