



# Matthew Washington Bradshaw

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<https://github.com/MWBradshaw>

## Education:

**Claflin University, Orangeburg, SC (Honors College)**

May 2024

Bachelor of Science in Computer Engineering:

GPA: 3.7 /4.0

## Relevant Courses:

- |                               |   |
|-------------------------------|---|
| ○ Fundamentals of Programming | ○ Introduction to Object Oriented Programming |
| ○ Discrete Mathematics        | ○ Computer Organization & Architecture        |
| ○ Calculus I                  | ○ Data Structures & Algorithms                |
| ○ Calculus II                 | ○ Computer Systems                            |

## Technical/Non-Technical Skills:

- |  |  |
|--|--|
| ○ Java (Curriculum-taught; intermediate level) | ○ HTML5 (Self-taught; intermediate level)      |
| ○ Python (Self-taught; intermediate level)     | ○ CSS3 (Self-taught; intermediate level)       |
| ○ ReactJS                                      | ○ JavaScript (Self-taught; intermediate level) |
| ○ Typescript                                   | ○ Bootstrap 5                                  |
| ○ Git  | ○ Agile/Scrum                                  |

## Experience:

**Software Engineer Intern** – Lutron Electronics, Inc.

May – August 2022

- Developed the user interface and functionality for Lutron Electronics' mobile application's new feature Integrator Logs, an activity component dedicated to showcasing the timestamps of the operation of lighting in a customer's home for troubleshooting purposes, with the use of ReactJS, CSS3 and Bootstrap 5.
- Implemented parsing fields for data taken from the cloud processor with the use of Typescript.

**DHAP Intern** – SeKON Enterprise Inc.

January 2022 – Present

- Developed a set of responsive website markups for the CDC's new website's HIV risk reduction tool using HTML, CSS, JavaScript, and Bootstrap 5 resulting in overall website traffic increasing by 17%.

**Research Intern** - University of Pittsburgh's Human Engineering Research Laboratories

June 2021 – July 2021

- Worked with a team of engineers to develop an iteration of the Agile Life's Patient Transfer System that could better transfer veterans and other from bed to wheelchair and vice versa.
- I was tasked with creating an ergonomic user interface for the Raspberry Pi that was used to operate the bed commands using the Python library tkinter.

## Key Projects:

**Pomodoro Application**

August 2022

- Developed a functional pomodoro application with the use of Typescript, ReactJS, HTML5 and CSS3
- Implemented additional functionality that allows users the options to customize the time set for each focus session and subsequent break
- Designed the application's user interface with the use of Figma

**Blockchain Prototype**

June 2022

- Created a prototype blockchain data structure with functions to create a new block and ascribe properties to it such as a sha256 block hash and a list of pending transactions with the use of JavaScript

**NEXUS – Online Portfolio**

December 2021

- Developed the user interface of a mock online portfolio which includes an About Me section, a Programming Languages section, an interactive timeline showcasing job experience and a contact form with the use of HTML5, CSS3 and JavaScript
- Created wireframes of the user interface and developed custom icons with the use of Figma

## Activities/Awards:

National Society of Black Engineers (NSBE)

**President**

2021-2022

Global Student Organization

**Public Relations Officer**

2021-2022

8<sup>th</sup> Annual Business Plan Competition (Claflin University)

**Second Place**

2021

WMC FinTech Challenge

**Second Place**

2021

Alice Carson Tisdale Honors College

**Member**

2020-Present

NAHBCUT3A, Inc. Scholarship

**Recipient**

2021