**Brian Farrell**

Raynham, MA | brianfarrell800@gmail.com | (508) 386-6012 | [Website](https://bfarrell20.github.io/)

**EDUCATION**

**Stonehill College** | May 2024

Bachelor of Science | **Major:** Computer Science **Minor:** Mathematics

**GPA:** 3.67 |Dean’s List | Lambda Epsilon Sigma Honor Society | Moreau Honors Scholar

**SKILLS**

**Computer Languages:** Python, C++, Java, JavaScript, HTML, CSS

**Software:** Kubernetes, AWS, Visual Studio Code, Gitlab, Docker, Linux/Shell, MobaXterm, Oracle VM Virtual Box, Mac OS

**RELEVANT COURSEWORK**

Machine Learning, Artificial Intelligence, Linear Algebra and Differential Equations, Operating Systems, Algorithms and Complexities, Web Programming, Computer Logic and Organization, Cybersecurity, Bayesian Statistics, Theory of Computation

**PROJECTS**

**Recipe Rendezvous**

* Created a recipe sharing website using Flask and SQLite for a group project for Web Programming.

**Learning Community: Mathematical Experiments in Computer Science**

* Developed Algorithms for multiple complex mathematical problems
* Designed lab reports to demonstrate the connection between the mathematical proofs and the algorithms

**Computer Logic and Organization**

* Constructed functional basic computer from scratch using breadboard
* Collaborated with a group for this semester long project.

**Research Project Analyzing the Impact of Music on Mood**

* Conducted research on how music impacts the mood of college students.
* Developed an algorithm to analyze the data to gather conclusions.
* Wrote a research paper detailing the findings and compared the results to the hypothesis.

**WORK EXPERIENCE**

**General Dynamics Mission Systems** | Taunton, MA June 2023 - Present

*Software Engineer Intern*

* Developed environmental testing logging python scripts.
* Created a unit test for every script.
* Set up virtual machines and AWS clusters to run with the scripts.
* Used Kubernetes and Docker files to run the scripts using the hardware.
* Worked alongside a team using agile practices.
* Participated in a high-level meeting discussing an upcoming demonstration of our project.
* Presented my work to my team, managers, and shareholders on multiple occasions.

**Tutoring Services** | Stonehill College August 2022 - Present

*Tutor, Computer Science and Math*

* Work with students individually on a wide range of potential math or computer science courses.
* Guide students on how to improve study habits and how to approach homework problems.

**Teaching Assistant** | Stonehill College

*Computer Logic and Organization* August 2023 - December 2023

* Help students work through bugs with their breadboard circuit project.
* Run in-class lab days throughout the semester where students can get help on their projects.

*Computer Science I & II*  August 2022 - May 2023

* Host review sessions for all sections to help students struggling with homework programs better understand the basic concepts of Computer Science.
* Communicate with the professors on specific ways to improve the course’s content and workload.

**COLLEGIATE ACTIVITIES**

**Association for Computing Machinery** | Stonehill College August 2020 - Present

**Math Club** | Stonehill College August 2022 - Present