Brian Farrell

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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