**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:** 3.68 |Dean’s List | Lambda Epsilon Sigma Honor Society | Moreau Honors Scholar | Cum Laude | Honors in Computer Science

**LEADERSHIP**

**Head Developer| Recipe Rendezvous**

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

**Project Lead | Research Analyzing Impact of Music on Mood**

* Conducted research on how music impacts the mood of college students.
* Wrote a research paper detailing the findings and compared the results to the hypothesis.

**SKILLS**

**Computer Languages:** Python, R, C++, Java, JavaScript

**Software:** TensorFlow, Scikit-learn, Kubernetes, AWS, Visual Studio Code, Gitlab, Docker, Linux/Shell, MobaXterm, Oracle Virtual Box, SQL, MySQL Workbench, Digital Ocean, Xcode, Test Flight, App Store Connect, Postman, Wireshark, OneSignal, Apache, React Native, Expo, Expo Go

**RELEVANT COURSEWORK**

Machine Learning, Artificial Intelligence, Database Management Systems, Linear Models, Linear Algebra, Operating Systems, Algorithms, Web Programming, Computer Logic and Organization, Cybersecurity, Bayesian Statistics, Theory of Computation

**PROJECTS**

[**Earthquake Magnitude Prediction Model**](https://github.com/bfarrell20/Earthquake-Magnitude-Prediction-Model)

* Developed machine learning models to predict magnitude of earthquakes given a list of regressors. Models include linear regression, decision trees, KNN Regressor, Random Forest, Sequential Neural Network.
* Wrote Research paper on the results following IEEE formatting.

[Jewish Positivity App](https://github.com/HillCapstone2024/JewishPositivity.git)

* Computer Science capstone project simulating a start up with a product owner and Xtreme Programming practices.
* Set up daily notifications using OneSignal API framework using a python script on our digital ocean server
* Created production version of the app using Xcode and Test Flight for the front-end and hosted the backend on a digital ocean server using a docker container.

**WORK EXPERIENCE**

**Local Treasure Start Up** | Wayland, MAAugust 2023 – December 2023

*Full Stack Developer*

* Complete stories following agile practices with Pivotal Tracker.
* Develop and maintain IOS and Android App using React-Native and Django.
* Communicate with business owner to transform imagination into a functional product consistent with the vision.

**General Dynamics Mission Systems** | Taunton, MA June 2023 – August 2023

*Software Engineer Intern*

* Developed environmental testing logging python scripts while following agile practices.
* Integrated unit tests into the CI/CD DevSecOps pipelines to run automatically with every commit.
* Set up virtual machines and AWS clusters to run with the scripts.
* Used Kubernetes and Docker files to run the scripts using the hardware.
* Participated in a high-level meeting discussing an upcoming demonstration of our project.
* Demonstrated my work to supervisors, managers, and shareholders on multiple occasions.

**Tutoring Services** | Stonehill College August 2022 – May 2024

*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 August 2022 – May 2024

*Computer Logic and Organization, Computer Science I & II, Introduction to Programming*

* Host review sessions to help students with homework programs and other class projects.
* Communicate with the professors on specific ways to improve the course’s content and workload.