

# Brian Farrell

Raynham, MA | brianfarrell800@gmail.com | (508) 386-6012 | [My Website](#)

## EDUCATION

**Tufts University** | Expected Graduation: May 2026

Master of Science | Computer Science

Relevant Coursework: Computer Vision, Human Robot Interaction, Cybersecurity

**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

## SKILLS

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

**Software:** AWS, Jira, Confluence, Gitlab, VS Code, MySQL, TensorFlow, Scikit-learn, Kubernetes, Docker, React, React Native, Django, Node.js, Flask, Digital Ocean, DBeaver, Xcode, Test Flight, Apache, Postman, Wireshark, OneSignal, Expo, MobaXterm

## PROJECTS

### [Hummingbird Nurse Website](#)

- Worked with business owner to create website for nurse consulting company.

### [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.

### **Research Paper Analyzing Impact of Music on Mood**

- Wrote paper on the results of research into how music impacts mood of college students.

## ENGINEERING EXPERIENCE

**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.

**Jewish Positivity Start Up** | Easton, MA

January 2024 – August 2024

*Development Operations Engineer*

- Developed iOS and Android app for promoting prayer and community among the local Jewish community.
- Configured and fixed issues with peers' development environments.
- Automated daily push notifications using OneSignal API framework.
- Deployed the app frontend to production using Test Flight and the backend to Digital Ocean server using Apache and Docker.
- 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.
- Onboarded and assisted with any issues for new development team taking over the project.

**Local Treasure Start Up** | Wayland, MA

August 2023 – December 2023

*Full Stack Developer*

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

## TEACHING EXPERIENCE

**CodeWiz** | Hingham, MA

September 2024 - Present

*Coding Instructor*

- Work with kids to follow a coding curriculum including MCreator, Roblox Studio, Scratch, and Python.

**Stonehill College** | Easton, MA

August 2022 – May 2024

*Subject Tutor, Teaching Assistant*

- Worked with students individually on a wide range of potential math or computer science courses.
- Guided students on how to improve study habits and how to approach homework problems.
- Hosted review sessions to help students with homework programs and other class projects.
- Communicated with the professors on specific ways to improve the course's content and workload.