Brian Farrell

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EDUCATION

Tufts University | Expected Graduation: May 2026
Master of Science | Computer Science
GPA: 4.0 | 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, Power BI

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   December 2024 – Present
Software Engineer Intern

- Designed dashboard using Power BI while following agile principles

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

- 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.
- Added features to the mobile app using Google Maps API.

General Dynamics Mission Systems | Taunton, MA   June 2023 – August 2023
Software Engineer Intern

- Developed environmental logging scripts used for testing hardware.
- 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 containers 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.

TEACHING EXPERIENCE

CodeWiz | Hingham, MA   September 2024 – December 2024
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.