Brian Farrell

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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
- 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
- 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, MA   August 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.