Sarah Fleming

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EDUCATION

Boston College – *Chestnut Hill, MA*   **Fall 2022 – Spring 2026** (*expected*)
Bachelor of Science in Computer Science | Minor in Management and Leadership | GPA 3.8
Course Highlights: Software Engineering, Algorithms, Computer Systems, Logic and Computation, Randomness and Computation, Fundamentals of Operations Research, Entrepreneurial Management, Differential Equations

EXPERIENCE

Machine Learning Undergraduate Research Fellow   **June 2025 - Present**
Boston College Computer Science Department | Chestnut Hill, MA
- Collaborated with a faculty advisor in their research on model calibration in multiclass classification settings, focusing on smoothing discrete prediction properties to improve ML model loss and calibration.
- Implemented and trained neural networks in PyTorch to make predictions based on given data sets.
- Gained expertise in model evaluation, including plotting loss surfaces, analyzing prediction distributions, and reviewing academic literature on calibration, probabilistic forecasting, and surrogate losses.

Photo Editor   **Dec 2023 - Present**
The Heights, Inc. | Chestnut Hill, MA
- Editorial team for Boston College's independent student newspaper and a registered nonprofit.
- Leading a team of 20 photographers to cover 10-15 news stories on campus a week.
- Ideating creative solutions to bring stories to life and engage with thousands of readers.

Teaching Assistant   **Aug 2023 - Dec 2024**
Boston College Computer Science Department | Chestnut Hill, MA
- Expanding skills in Java and data structures by implementing innovative approaches to engage a discussion section of 15 students with the class material.
- Problem-solving one-on-one with students during office hours, meeting grading deadlines, and providing feedback on weekly assignments.

SKILLS

Git, Java, C, Python, Verilog, SQL, React, PyTorch, HTML, CSS, JavaScript, Linux, Adobe Suite, LaTeX, Figma

PROJECTS

Peer Evaluation Web App: worked on a team to develop a full-stack web application in Django to streamline peer evaluations for academic or team settings. Integrated Google OAuth for user authentication and account access, implemented SQL databases to manage user and admin data, set up automated email notifications for evaluation reminders and status updates, and collaborated on a user-friendly interface to improve usability and engagement.

BConnect: led the design of the UX/UI for a campus events app using Figma, creating multiple page layouts and interactive prototypes. Conducted market research to inform design decisions, improving user engagement.

911 Call Tracker: engineered a data processing program in Python to extract regional 911 call data from a CSV file. Utilized Python's matplotlib to visualize call time patterns and probability foundations to calculate distributions.