

# EMMA DUFFY

Skowhegan, ME | eduffy225@gmail.com | 207-612-6304

<https://www.linkedin.com/in/emma-duffy4/>

**Boston College graduate skilled in software engineering, data science, and full-stack development.** Proven coding, problem-solving, and collaboration abilities from projects and leadership at Girls Who Code. Seeking a software engineering or data science role to deliver innovative solutions using technical expertise and strategic thinking.

## SKILLS

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Python | Java | C | JavaScript | React | SQL | HTML | CSS | Tableau | Looker | Google BigQuery | Figma | Stata | IBM SPSS | Microsoft 365 | Google Workspace | GitHub | PyTorch | Matplotlib | Pandas | NumPy | Plotly | TensorFlow | Seaborn | Chart.js | D3.js | p5.js | Bootstrap | Replit | Glitch | Canva | Notion

## PROJECTS

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- **Spotify Data Insights Dashboard:** Designed and developed an interactive dashboard using **Tableau and Python** to analyze Spotify data, uncovering insights into user listening habits, seasonal trends, and music preferences.
- **Machine Learning for Breast Ultrasound Analysis:** Built a machine learning model using **CNN and U-Net**, achieving **94.3% accuracy** in breast ultrasound image segmentation with KLD loss, significantly enhancing prediction precision.
- **Personal Portfolio Website:** Created a responsive personal website using **React, HTML, CSS, and Material UI**, featuring dynamic components that enhance user navigation and portfolio presentation.

## WORK & LEADERSHIP EXPERIENCE

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### Girls Who Code

*Coding Instructor*

*June 2023 – August 2023*

- Empowered 180+ girls and non-binary students to develop core coding skills in **JavaScript** and **p5.js**, leading to a 95% project completion rate and fostering long-term interest in STEM fields
- Cultivated an inclusive learning environment, leading to noticeable growth in student participation and engagement
- Provided personalized support during office hours, helping students overcome coding challenges
- Facilitated partnerships with Dreamhaven, BlackRock, and Ansys, organizing 10+ events that led to mentorship opportunities, directly connecting students with industry leaders

### Boston College

*Resident Assistant*

*August 2022 – May 2024*

- Awarded **RA of the Year** for exceptional leadership and community-building, fostering an inclusive atmosphere for 100+ residents in an 800+ resident hall
- Planned and executed 10+ social programs, managing a budget to enhance belonging and social engagement among residents
- Resolved conflicts and disciplinary issues through mediation and reporting, maintaining a safe living environment
- Enhanced student engagement by effectively communicating important campus resources, and community events, ensuring residents stayed informed and connected

### Boston College

*Member Services*

*May 2023 – May 2024*

- Selected to join the hiring committee, evaluating and ranking over 400 applications
- Conducted 55 face-to-face interviews and facilitated training sessions
- Oversaw inventory management, sales transactions, and rentals

## EDUCATION

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### Boston College, Morrissey College of Arts and Sciences

Chestnut Hill, MA

*Bachelor of Arts in Computer Science, Minor in Marketing*

May 2024

Cumulative GPA: 3.5

- Relevant courses: Algorithms, Computer Systems, Computer Organization, Data Visualization, Data Science

### Skowhegan Area High School

Skowhegan, ME

*High School Diploma*

May 2020

Cumulative GPA: 4.0

- Salutatorian, National Honor Society Secretary, Captain of Varsity soccer, softball, and basketball

## AWARDS

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- Awarded RA of the Year by Boston College Residential Life
- Maine Principal's Award, Special Athlete Recognition Award, Maine Interscholastic Athletic Scholar Award for Academic and Athletic Excellence, American Legion School Award