

Bridget Crampton

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EDUCATION

Northeastern University, Khoury School of Computer Sciences

Boston, MA

Candidate for BS in Data Science - GPA: 3.79

May 2028

Minor: **Business Analytics**

Relevant Coursework: Advanced Programming with Data; Information Presentation and Visualization; Foundations of Data Science; Discrete Structures; Linear Algebra; Financial Accounting & Reporting

TECHNICAL SKILLS

Programming: Python, SQL | **Libraries:** Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn, Plotly, BS4, Selenium

Tools & Platforms: Jupyter Notebook, Git/GitHub, GitHub Actions, Google ADK, Tableau, Excel, REST APIs

RELATED EXPERIENCE

Undergraduate Research Assistant

Boston, MA

Network Science Institute at Northeastern University

Nov 2025 - Present

- Developing computational framework analyzing player positioning networks using Delaunay triangulation and Voronoi tessellation in Python to model spatial relationships and tactical formations in professional soccer
- Building pass network classification system processing 10,000+ events to identify team playing styles through graph theory metrics (betweenness centrality, clustering coefficient) and gradient boosting models

Data Science Intern

Seattle, WA

SparkJar Agency

May - July 2025

- Built Python web scraper using Beautiful Soup, Regex, and Requests to extract and clean SEC filing data from 20+ companies, delivering wrangled datasets for client business intelligence needs
- Developed data-driven AI agent using Google ADK with sentiment analysis and keyword detection to deliver data-driven insights of credit risk for small businesses
- Optimized analysis accuracy and processing speed by experimenting with Vertex AI GenAI API prompts to ensure data integrity and generate comprehensive reports

LEADERSHIP EXPERIENCE

Resident Assistant

Boston, MA

Northeastern University, Housing and Residential Life

Aug 2025 - Present

- Support 100+ building residents through monthly 12-hour duty shifts and 1-on-1 check-ins, identifying support needs and connecting students to campus resources
- Plan 4 community-building events per semester with \$300 budget, fostering engagement across 30+ hall residents

Founder, President of Outreach

London, UK

Girls Who Code Chapter, Northeastern University, London

Jan - May 2025

- Grew membership from 4 to 20+ returning members in one semester through targeted CS/DS major outreach and marketing strategies via Instagram
- Recruited 5 tech industry speakers via LinkedIn and alumni network for career insight sessions
- Co-hosted STEM event with WISE (Women's Interdisciplinary Soc. of Entrepreneurship) attracting 50+ attendees

PROJECTS

CoopScout | *Personal Project*

November 2025 - Present

- Built automated web scraper using Python and Selenium to extract 1000+ co-op job postings, performing data cleaning and wrangling to export structured JSON data
- Engineering Flask REST API with CI/CD pipeline via GitHub Actions to orchestrate daily scraping workflows and real-time change detection algorithms

TA Assignment Optimizer | *Academic Project*

Fall 2025

- Engineered evolutionary algorithm optimizing 40 TAs across 17 lab sections using custom fitness functions, achieving zero scheduling conflicts and zero unavailable assignments across 100,000+ iterations
- Implemented multi-objective machine learning optimization framework with 4 mutation agents and Pareto dominance filtering, using statistical analysis to reduce constraint violations by 85% compared to baseline