

Catherine Bregou

Work History

Software Developer Intern

Jun 2023 - Present

L-eaf Labs

- Gained invaluable real-world software development experience through close client collaboration, thoughtfully refined deliverables to exceed customer's expectations, and effectively engaged in team-based collaboration to resolve challenges.
- Utilized Agile methodologies, flow metrics, Kanban boards, and Toyota practices to streamline project management and delivery.
- Developing a digital community learning platform for the NativityMiguel Coalition to assess high school options and facilitate informed, financially responsible decisions about education.

Technology Enrichment Specialist

Jun 2023 - Aug 2023

METCO

- METCO aims to promote racial and cultural integration within public schools in the Boston metropolitan area, enhancing educational opportunities and fostering inclusivity.
- Developed lessons plans to introduce the fundamentals of coding such as inputs, outputs, variables, loops, conditional statements, and algorithms to kids of all ages.
- Individualized lesson plans and modified existing academic curricula to meet special learning needs. Provided one-on-one help for students struggling with learning concepts.

Primary Researcher

Jan 2022 - Jun 2023

Carleton Computer Science Department

- Conducted research on computational ranking of judgment models under the guidance of research advisor David Liben-Nowell.
- The paper, currently in the publication process, explores leveraging computational modeling to delve into human decision-making processes and gain insights into the boundaries of their consideration sets.

Assistant Researcher

Jun 2022 - Sep 2022

Dartmouth Hitchcock Medical Center

- A research project using nano particles in a magnetic field to monitor the removal of the thrombus used to treat stroke patients.
- Programed a BioAssembly Bot to 3D print a porous material to substitute brain material in primary research stages.



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Education

Carleton College | Bachelors of Arts | Class of 2025

Majoring in Computer Science, GPA:3.75

Hanover High School | High School Diploma | 2021

GPA: 3.80

Programming Skills

- Languages: Proficient in Python, Java, HTML, CSS, JavaScript, SQL, C++, C, and Assembly language.
- Coursework: Object-oriented programming, data structures, discrete mathematics for computer science, artificial life, digital evolution, and computer systems.
- Project Management: Experienced with Agile methodologies, Toyota practices, flow metrics, Kanban boards, and Asana to track progress and streamline project workflows.
- Front-end Frameworks: Familiar with frameworks like React and Angular to build dynamic user interfaces.
- Back-end Development: Skilled in utilizing Flask for creating robust back-end solutions.
- Database Management: Experienced in handling data using PostgreSQL for efficient storage and retrieval.
- Testing Proficiency: Knowledgeable in testing methodologies, including unit testing, integration testing, and utilization of automated testing frameworks.