

Liam Cassidy

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EDUCATION

Dartmouth College

Bachelor of Engineering in Computer Engineering (Dual-Degree Program)

Hanover, NH

June 2023 – June 2026

Colby College

Bachelor of Arts in Computer Science, Minor in Mathematics

Waterville, ME

Aug. 2021 – May 2025

EXPERIENCE

Data Science Intern

June 2025 – Nov. 2025

Remote

- Developed, maintained, and deployed dockerized Python scripts using BeautifulSoup and Selenium to automate data collection from online news sources on an AWS Lambda, ensuring compliance with terms of service and robots.txt directives
- Implemented hierarchical trade relationship discovery methodology using shipment data and entity resolution services to identify facility partnerships across multiple geographic precision levels and reveal multi-tier supplier networks

Undergraduate Research Assistant

June 2024 – May 2025

INSITE Lab at Colby College

Waterville, ME

- Facilitated development of Swift application with containerized Express.js & React.js server allowing blind and vision-impaired users to navigate indoors with the Boston Dynamics Spot robot
- Designed a local server-based archival tool in MongoDB & React.js to manage and analyze meteorological and ecological data
- Processed months of bird audio recordings using machine learning techniques, including spectral feature extraction and unsupervised clustering, to identify patterns in species activity and behavior

Undergraduate Data Science Intern

Sep. 2023 – Mar. 2024

DIFUSE Project at Dartmouth College

Hanover, NH

- Devised exercises and modules in Python-based Jupyter Notebooks using Pandas and Matplotlib for a climate change unit, integrating data science concepts into a Geography course as part of an NSF-funded project
- Shaped lesson plans to integrate a custom tool for visualizing thermodynamics concepts in a Physics course curriculum

Undergraduate Smart-Home Technology Researcher

July 2023 – Aug. 2023

Dartmouth College

Hanover, NH

- Conducted technical analysis of Matter-enabled smart-home devices, working with a diverse research team to streamline onboarding flows across iOS and Android ecosystems, culminating in a research paper accepted to ACM HotMobile 2024

PROJECTS

Sillybus | Python, Flask, HTML, CSS, JavaScript

Oct. 2023

- Led a 4-person team through the full project lifecycle using Scrum methodology during a 24-hour hackathon, building a full-stack web app that integrated the Google Classroom REST API to automate syllabus-to-assignment conversion using OCR and machine learning, while coordinating team efforts to meet competition deadlines

Twitter Analysis of Online Vaccine Discourse | Twitter API, Python, R

Jan. 2022 – Aug. 2023

- First Place Winner of the Columbia University 2023 COVID Information Commons Student Paper Challenge
- Collaborated with two classmates to assess Twitter user, post, and hashtag data related to online discourse during the COVID-19 pandemic
- Applied topicb2 modeling and community detection techniques in Python and R to uncover demographic patterns and map user influence across Twitter

TECHNICAL SKILLS

Languages: Java, Python, C/C++, Swift, SQL, JavaScript, HTML/CSS, R, MATLAB, VHDL

Frameworks: Express.js, React.js, Node.js, Flask

Developer Tools: Git, Docker, Singularity, AWS, MongoDB, Jupyter, Linux, VS Code, Eclipse

Libraries: pandas, NumPy, Matplotlib, scikit-learn, BeautifulSoup, Selenium