

# Liz Rightmire

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## EDUCATION

### Middlebury College

Middlebury, VT

*Bachelor of Arts* (Computer Science Major, Mathematics Minor)

**GPA:** 3.98/4.00

**Honors/Awards:** Summa Cum Laude, Distinction in Major, College Scholar

**Relevant Coursework:** Statistical Sciences, Statistical Learning, Data Science, Machine Learning, Randomized Algorithms for Data Science, Artificial Intelligence, Artificial Neural Networks and Deep Learning, Healthcare in the USA

**Activities/Interests:** Women in Computer Science Club, Global Health Club, Middlebury EMTs, New Student Orientation Leader

## EXPERIENCE

### Deloitte Touche Tohmatsu

Boston, MA

*Data Engineer Intern*

May 2024 – August 2024

- Queried attribute discrepancies, duplicates, and missing entries from Informatica master data management platform to populate a Power BI dashboard describing quality of ETL flow
- Compiled a non-structured database of source data load times, performance alerts, user activities, and resource usage to explain poor system performance; formulated actionable recommendations for database team

### CVS Health

Remote

*Data Science Intern*

May 2023 – August 2023

- Designed, tested, and improved a Keras recurrent neural network model to populate a clickable web field with the customer's predicted next search term, leading to a more efficient customer search experience and an increased search-to-purchase conversion
- Crafted the model's dataset using a SQL query to extract over 1 million search terms from July 2023; cleansed dataset using spell checker and profanity filter
- Selected with 10% of intern class to orally present model outcome to business stakeholders in CVS Health's Manhattan office; received the highest possible performance review score

### Dartmouth Hitchcock Medical Center

Lebanon, NH

*Health Research Intern*

May 2022 – August 2022

- Determined impact of immunosuppressant regimen on the COVID survival rate of organ transplant patients via auto-updating Matplotlib figures, Chi-Squared test, and Fisher's exact test; presented findings to medical team
- Created an Excel dataset of 1000+ patients using SQL scripts to extract and cleanse Epic medical records

### Middlebury College Quantitative Center

Middlebury, VT

*Teaching Assistant*

September 2022 – Present

- Host individual and group (10+ students) tutoring sessions for Math Foundations of Computing class, dissecting complicated concepts—such as Graph Theory, Proofs and Logic, Vector Geometry, and Probability—into digestible lessons
- Provide personalized feedback on weekly homework assignments for the Introduction to Data Science class

## PROJECTS

### Fetal Health Prediction ([blog post](#))

May 2024

- Developed SVM and boosted random forest models to predict fetal health risk scores from incremental CTG scan data, reaching 89% and 100% accuracy, respectively.

### Skin Cancer Classification ([blog post](#))

May 2024

- Designed, implemented, and evaluated convolutional neural network models to classify an unbalanced dataset of 10,000+ skin cancer images into 7 of the most common diagnoses at 75% accuracy.
- Utilized data augmentation, transfer learning, and hyperparameter tuning to reduce false negative rate in malignant diagnosis categories

## SKILLS

**Languages:** Python, SQL, R, LaTeX, Java

**Tools/Frameworks:** Tensorflow/Keras, Quarto, Git, Power BI, Pandas, Tableau, PyTorch, Matplotlib, Numpy