

# Leah Prince

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## Education

### UNIVERSITY OF MARYLAND, BALTIMORE COUNTY (UMBC)

MAY 2025

#### Bachelor of Science, Computer Science

GPA: 3.61 / 4.0

**Honors:** Center for Women in Technology (CWIT) Scholar, Peer Mentor, Grand Challenges Scholar, 2024-2025  
Undergraduate Research Award (URA), Community Service App Project Manager

**Relevant Courses:** Data Structures, Statistics for Engineers and Scientists, Database Management Systems, Intro to Data Science, Intro to Artificial Intelligence

## Technical Skills

**PROGRAMMING LANGUAGES:** C++, Python, Java, R, Bash Scripting

**DATA SCIENCE:** pandas, scikit-learn, Matplotlib, NetworkX, plotly, seaborn, MySQL, PostgreSQL

**UNIX/LINUX:** Vim, Emacs, General Commands, Git, Docker

**OTHER:** Ticket Systems, Microsoft Office, Public Speaking

## Professional Experience

### UNDERGRADUATE INFORMATICS RESEARCHER

6/2023 – PRESENT

UMBC DEPT OF INFORMATION SYSTEMS, BALTIMORE MD

- Implemented data representation methods such as Symbolic Aggregate Approximation (SAX) and Bag-of-Patterns (BOP) on multidimensional patient ICU data using Python
- Effectively communicated research methods and results to non-technical and technical audiences through poster presentations
- Designed and implemented relational database schemas in PostgreSQL to structure and store patient data.

### DATA ANALYTICS RESEARCH INTERN

5/2024 – 7/2024

OLD DOMINION UNIVERSITY, NORFOLK VA

- Developed a web scraping script to extract and organize Instagram account details from accounts known for disinformation from web archives into DataFrames using BeautifulSoup
- Created interactive visualizations to analyze social networks using NetworkX and similarities in user engagement using k-means clustering
- Authored a technical report and effectively presented results to professors using PowerPoint

### SOFTWARE ENGINEERING INTERN

1/2024 – 5/2024

SYSTOLIC, INC., REMOTE

- Created a plugin in Java for extracting Json keys using HashMaps, streamlining data flow searches for improved user experience
- Conducted unit testing to validate user file format inputs, enhancing system reliability.

## Computing Projects

### WEB PAGE CAPTURE PROCESSOR | OLD DOMINION UNIVERSITY

6/2024 – 7/2024

- Project from National Science Foundation (NSF) sponsored site and repo located at <https://github.com/leahp21/reu-work>.
- Retrieves all available web page captures for a given Instagram link, scrapes content from each capture, and stores the follower count, hashtags, and mentions in a time-structured DataFrame using Python