

# Moyartu Manley

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## EDUCATION

### Macalester College

Bachelor of Arts in Computer Science; GPA: 3.57

Saint Paul, MN

Sep. 2023 – May 2027

## EXPERIENCE

### Undergraduate Research Assistant

Department of Computer Science, Macalester College

September 2024 – Present

St. Paul, MN

- Composed and presented research proposal to CS department faculty, securing approval for a novel study into online community dynamics.
- Developed and implemented a Python-based web scraper using BeautifulSoup 4 and Requests to efficiently collect and process posts from online imageboards.
- Analyzed the correlation between group demographics and community dynamics to identify key factors and directionality of toxicity in insular online spaces.
- Effectively communicated research findings and insights to faculty advisors through weekly meetings, leading to valuable discussions and future research directions.

### Summer Research Assistant

Department of Computer Science, Macalester College

May 2025 – July 2025

St. Paul, MN

- Contributed 80,000+ lines of code into an existing Python-based web scraper using Git, significantly expanding data collection capabilities.
- Led the large-scale text tokenization of a 3.5+ million-word corpus, optimizing data preparation for advanced natural language processing applications and enabling efficient model training.
- Utilized Atlas.ti for qualitative thematic analysis of datasets, identifying and coding for key patterns and themes.
- Engineered and optimized Latent Dirichlet Allocation (LDA) models for topic discovery within the corpus, uncovering 15 key thematic areas and confirming qualitative findings.
- Presented key insights during bi-weekly principal investigator meetings, influencing project direction.

### User Experience Intern

OptumRx

June 2022 – August 2022

Raleigh, NC

- Composed empathy maps based on detractors expressed by users.
- Spearheaded the redesign of the OptumRx patient portal and developed a working prototype using Figma.
- Devised an implementation budget for the prototype and its associated services.
- Presented project to the OptumRx team and industry leaders.

## PROJECTS

### Mini SL Departure Display | Javascript, Node.js, Raspberry Pi, Linux

August 2025 – December 2025

- Designed and deployed a full-stack embedded transit monitoring system using Node.js and Raspberry Pi, integrating the SL Public Transport API for live, real-time departure data.
- Optimized data handling and rendering to simultaneously manage and display the best departure times across 8 nearest stations, using efficient state management to maintain a responsive display refresh rate.

### Discord In Your Heart | Python, Ren.py

February 2024

- Assisted in implementing core gameplay mechanics, including a UI similar to that of Discord, route options, and game endings.
- Won 3 out of 4 awards (Most Rizz Award, Life-Changing Award, Fan Favorite Award) at Macalester's 48-hour Cupid Jam.

## TECHNICAL SKILLS

**Languages:** Java, Javascript, Python, HTML, CSS

**Networking & APIs:** RESTful APIs, Serial Communication

**Embedded & IoT:** Embedded Development, SenseHAT

**Libraries & Frameworks:** BeautifulSoup, Gensim, NLTK, Spacy

**Developer Tools:** Git, VS Code