

# Hanna Jiang

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[github.com/hannajiangg](https://github.com/hannajiangg)

## Education

**University of Massachusetts, Amherst**  
**Bachelor of Science in Computer Science and Neuroscience**

**Expected Fall 2024**

GPA: 3.93

**Awards:** Dean's List Honors, \$12,800 Sherwood Delaney Scholarship

**Selected Coursework:** Machine Learning, Artificial Intelligence, Software Engineering, Programming Methodology, Algorithms, Data Structures, Probability, Statistics, Multivariable Calculus, Linear Algebra

## Technical Skills

**Languages:** Python, Java, C/C++ , JavaScript, TypeScript, HTML/CSS, SQL

**Tools and Frameworks:** CSS, Node.js, Next.js, React, Microsoft Azure, Git, Github, Matplotlib, Pandas, NumPy

## Experience

**Lab for Advanced Systems Software and Sleep, UMass Amherst**

**June 2023 – Aug 2023**

Software Engineering Intern

Amherst, MA

- Developed a data analytics and visualization web dashboard using Streamlit to help users study their sleep data.
- Organized and analyzed sleep data by using Pandas dataframes and generated charts using Matplotlib and Plotly.
- Managed and organized participant data using REDCap and executed data quality checks using SQL.

**Lab for Internet-scale Distributed Systems, UMass Amherst**

**June 2023 – August 2023**

Undergraduate Research Volunteer

Remote

- Spearheaded the development of Instant-NGP, innovatively improving real-time training for Neural Radiance Fields (NeRF) and amplifying the efficiency of novel view synthesis in Ringmaster under Dr. Ramesh Sitaraman.
- Engineered an effective algorithm and compact neural neural network, substantially increasing the training and rendering speed, while successfully implementing a scalable multi-resolution hash encoding method.

**Neuro Learning and Performance Lab, UMass Amherst**

**December 2021 – May 2022**

Undergraduate Research Assistant

Amherst, MA

- Developed and implemented machine learning models and Bayesian inference techniques using MATLAB and Python to analyze eye-tracking and multimodal data in a cognitive science lab.
- Conducted comprehensive data preprocessing, statistical analysis, and interpreted complex findings to illuminate cognitive behaviors and decision-making processes.

## Leadership

**Build UMass**

**February 2022 – Present**

Product Manager

Amherst, MA

- Collaborated with local businesses to guide 6 software engineers to design and create scalable technological projects.
- Utilized Figma, React, and Flask to convert security monitoring system from web application to mobile application.
- Conducted weekly team meetings to discuss future directions and areas of improvement.

**Manning College of Information and Computer Science**

**February 2024– Present**

Teaching Assistant

Amherst, MA

- Led 50-person weekly discussion sections reviewing time complexity, algorithmic paradigms, greedy, divide and conquer, dynamic programming, network flow, NP-completeness.
- Offer one-on-one assistance during weekly office hours and resolve questions and doubt in online question forum.

**UMass Machine Learning Club**

**June 2023 – Present**

Marketing Coordinator

Amherst, MA

- Spearheaded revival of club Instagram and email through informative weekly posts to grow membership base by 300%.
- Pioneered inclusion initiatives and project-based learning to meet students at their skill levels and foster community.
- Utilized Figma, React, and Flask to convert security monitoring system from web application to mobile application.