

Hanna Jiang

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Education

University of Massachusetts, Amherst

Expected May 2025

Bachelor of Science in Computer Science and Neuroscience

GPA: 3.93

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

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

Technical Skills

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

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

- Directed Business Development at BUILD, collaborating with business developers, software engineers, and UX researchers to revolutionize digital operations for clients based in Amherst.
- Collaborated with a local security system company to convert their website into a mobile application using React, enhancing accessibility and user experience.

Machine Learning Club

July 2022 – present

Marketing Coordinator

Amherst, MA

- Spearheaded the club's Instagram strategy, successfully growing the follower base by 300%
- Designed, promoted, and distributed effective marketing materials, leading to a significant increase in club membership
- Pioneered inclusive initiatives, making machine learning accessible to individuals of all skill levels, thereby fostering a diverse and enriched learning community.

UMass Residential Life

August 2022 – present

Residential Assistant

Amherst, MA

- Mediated conflicts among residents, employing diplomatic communication skills to maintain a harmonious living environment for 300+ first-year students.
- Organized and led a variety of social and educational events to build a sense of community among a diverse body of residents.
- Managed emergency situations promptly and professionally, ensuring resident safety and coordinating with campus security when necessary.