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, HTML, SQL

**Tools and Frameworks**: Node.js, Pandas

# 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.