

Jack Elden Douglass

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OVERVIEW

Recent Computer Science graduate with a strong foundation in machine learning, neural networks, and AI concepts. Passionate about applying knowledge and gaining experience through hands-on work with new technologies and methods.

EDUCATION

University of North Carolina at Charlotte, Charlotte, NC May 2025
Bachelor of Science in Computer Science
Concentration: Artificial Intelligence
Minors: Mathematics, Japanese GPA: 3.77
Honors: Fall 2022 - Spring 2025 Chancellor's List, Magna Cum Laude

TECHNICAL SKILLS: Machine Learning, Computer Vision, Pytorch, OpenCV, Git, JAX
Computer: Windows, Linux

Programming Languages: Java, Python, C, C++, SQL, Assembly, Javascript

PROJECTS:

Gaussian Splatting Implementation Using MVS March 2024 - May 2024

- Used COLMAP to construct a point cloud from a multi-view stereo of a statue.
- Implemented the Gaussian Splatting algorithm to reconstruct the three dimensional scene from the point cloud.

Cellular Computation Network June 2024 - May 2025

- Designed a novel neural network connectivity framework where individual networks dynamically exchange outputs as inputs during training to enhance learning efficiency.
- Researched and implemented optimal node grouping strategies to improve model performance and scalability.

Video Summarization Project January 2024 - May 2025

- Worked to create an AI model that could extract important temporal data from a video in order to make it shorter.
 - Applications in video to text models, trailer generation, and highlight detection.
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WORK EXPERIENCE:

Research Assistant at UNC Charlotte May 2024 - May 2025
Charlotte, North Carolina

- Developed a Cellular Computational Network in order to process information about power consumption on a grid.
- Developed a graph representation of cells using multilayer perceptrons.

Host at Red Robin July 2023 - Present
Winston-Salem, North Carolina

- Gained customer service experience by helping customers in person and over the phone.
 - Worked in a team environment to keep the restaurant clean and customers happy.
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