

# Peyton Comer

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github.com/pcomer04

Deliberative – Restorative – Relator – Achiever – Learner

## Education

### University of Nebraska – Lincoln

Graduated May 2025

**Major:** Computer Science | Honors Student | Accelerated Masters Student | **Minor:** Music Technology

- Cumulative GPA: 3.896
- Undergraduate Research Assistant in Machine Learning and Data Science, Course Leader and Developer

## Experience

### Research Assistant

August 2023 – Present

University of Nebraska-Lincoln – College of Engineering | Prof. Qiuming Yao | Lincoln, Nebraska

Utilized advanced machine learning algorithms for the analysis of genetic sequences. Collaborated on creating a scalable web application using Python, Flask, Docker, and AWS for genomic data visualization. Leveraged Facebook ESM models and plotly for enhanced insights and data interpretation.

### Computer Science Course Leader

January 2024 – May 2025

CSCE Department | University of Nebraska – Lincoln | Lincoln, Nebraska

Promoted after demonstrating leadership and innovation in helping students grasp core computer science concepts. Managed, mentored, and coordinated a team of Learning Assistants, ensuring student engagement and curriculum success.

## Skills

Full Stack Development | Python | TypeScript | Web Development | Agile | SQL | Flask | React | Collaboration | CSS

## Projects

### UNL Raikes Design Studio – Tenaska Flow Tracker (Typescript, React, C# .NET, SQL) September 2024 – May 2025

For my senior capstone, I was part of the Raikes Design Studio after being selected as an associate through a competitive interview process. I served as a developer on a highly collaborative 5-person team that built a full-stack web application for Tenaska. Following agile methodologies, I deepened my understanding of frontend development using TypeScript, SCSS, and React, as well as developed skills in SQL and .NET API development.

### Hack Midwest – DoppelHanger Project (Django, React, Pinata, SQL, Torch)

September 2024

As a part of the annual Hack Midwest Hackathon, I contributed to the creation of a machine learning-driven outfit recommendation engine, using Torch, Pinata, and SQL. Developed a full-stack solution with a React frontend and Python/Django backend, demonstrating cross-functional collaboration and innovative AI integration.

### NASA SUITS Project (C#, Unity)

September 2022 – May 2023

As a part of the annual NASA Suits challenge, I contributed to the development of a cutting-edge augmented reality interface using C#, Unity, and NASA APIs on the HoloLens 2. Focused on real-time data processing for astronaut efficiency and environmental responsiveness in high-stakes conditions. The team used modern software engineering practices with a focus on agile methodologies.

## Extracurriculars

- Founder of the UNL Indoor Percussion Ensemble (Spring 2025)
- Cornhusker Marching Band Drumline (August 2022 – December 2024)
- Lincoln Christian South Percussion Instructor (May 2024 – December 2024)
- Madison Scouts Drum and Bugle Corps (December 2023 - August 2024)
- Crossroads Indoor Percussion (December 2023 - April 2024)