

Amelia Eckard

Charlotte, NC | amelia@eckard.us | linkedin.com/in/ameliaeckard

EDUCATION

The University of North Carolina at Charlotte (UNCC) | Charlotte, NC

B.S. in Computer Science | AI, Robotics, & Gaming

May 2027

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, HTML, CSS, C, Assembly, SQL, Swift

Operating Systems: Windows, Linux, iOS

Specializations: AR/VR Development, Machine Learning, Database Design, Web Development

CERTIFICATIONS

JavaScript Algorithms and Data Structures | freeCodeCamp

April 2025

Responsive Web Design | freeCodeCamp

March 2025

PROJECTS

Facial Expression Detector (*HamsterFace*)

- Built a real-time facial expression recognition app using **face-api.js** and **JavaScript** that detects and classifies emotions through webcam input.
- Implemented async model loading, real-time video processing, and dynamic UI updates with confidence thresholds and expression tracking.

StudyBuddy

- Developed a web-based productivity page that has a Pomodoro timer, interactive task list, sticky notes, and custom flashcard tools using **JavaScript**, **HTML**, and **CSS**.

135Tasks

- Designed and developed a dynamic task manager web app based on the 1-3-5 productivity method.
- Implemented a responsive UI with localStorage persistence and interactive task editing features using **JavaScript**, **HTML**, and **CSS**.

PROFESSIONAL EXPERIENCE

Undergraduate Researcher | UNCC

August 2025 - Present

- Develop spatial audio accessibility solution using Apple Vision Pro and **Swift** to enable visually impaired users to identify and navigate to indoor objects, targeting 85% object identification accuracy and 30% reduction in navigation time
- Build **computer vision** and **machine learning** prototypes integrating spatial audio cues with user-centered testing to validate effectiveness for real-world object recognition

Peer Mentor | UNCC

August 2025 - Present

- Support first-year students with academic engagement and personal growth through check-ins, group discussions, and events.
- Guide student performance by promoting effective study habits and campus resources.

Make Life Special | **Office Assistant** | Clayton, NC

May 2024 – August 2024

- Created and implemented designs, managed orders, handled phone calls, corresponded via email, and sent out packages

Kode With Klossy (KWK) | **Scholar** | Raleigh, NC

June 2022

- Selected to receive a scholarship for a two-week, intensive summer program dedicated to educating and empowering young women and non-binary students in STEM.

STUDENT INVOLVEMENT

Alpha Omega Epsilon | **Sister & Formal Committee Head** | UNCC

January 2025 - Present

- Coordinate formal event planning and logistics for members, managing timelines, vendor communication, and budget allocation.