

# AMIIN MUSE

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## EDUCATION

### Northwestern University

Evanston, IL

B.S. Computer Science, Minor in Data Science and Engineering

Anticipated Graduation: June 2025

- **Major GPA:** 4.0/4.0
- **Relevant Courses:** Codepath Intermediate Software Engineering, Data Structures & Algorithms, Linear Algebra and MATLAB, Data Engineering, Intro to Artificial Intelligence, Human-Computer Interaction, Discrete Mathematics

## SKILLS & INTERESTS

**Skills/Technologies:** HTML, CSS, JavaScript, React, React Native, Python, C/C++, Racket, MATLAB, PHP, Pandas, Unix/Linux

**Interests:** Reading, Coding, Soccer, Traveling, Web Development, Drawing

**Languages:** Somali (native), English (Fluent), Arabic (Intermediate), Spanish (Beginner)

## EXPERIENCE

### Fermi National Accelerator Laboratory

Batavia, IL

Machine Learning Intern

June 2023 – August 2023

- Contributed to an ML application to enhance data search for 30+ researchers, engineers, and staff at Fermilab
- Utilized Natural Language Processing (NLP) techniques, the NLTK Python Library, and TensorFlow to improve data access and retrieval, resulting in a 90% model accuracy result rate.

### Northwestern University Information Technology

Evanston, IL

Student Technician

April 2022 – June 2023

- Provide technical support for 50+ classrooms, resolving computer software and hardware issues for 100+ students and faculty
- Resolve issues in a fast-paced, high-pressure environment through collaboration with 6 Visual/Audio IT professionals

### Northwestern University Computer Science Department

Evanston, IL

Peer Mentor/ Undergraduate Teaching Assistant

Nov 2022 – April 2023

- Served as peer mentor for Northwestern's 200+ students in the Fundamental of Computer Programming Course
- Provided 6+ weekly programming office hours to support students' understanding of Object Oriented Programming Python

## PROJECTS

### NeuroNet

Evanston, IL

IEEE Northwestern Chapter - Technical Program | Team of 5 | Awarded "Best of Overall Project"

January 2023 – April 2023

- Built a deep learning ML model capable of analyzing 3D MRI images and detecting Alzheimer's early with 94% accuracy
- Used Python libraries **Numpy**, **SimpleElastix** & **FSL** for image processing, **Tensorflow** & **Keras** for model training and **Streamlit** to build a lightweight client UI

### FareShare

Evanston, IL

WildHacks - Northwestern University's Largest Hackathon | Team of 4

April 2022

- Built a web application connecting Northwestern students for ridesharing to and from Chicago airports, utilizing **Javascript**, **React**, **CSS**, **HTML**, **Bootstrap**, and **Supabase**
- Implemented a user authentication system using Northwestern emails to ensure safe and secure ridesharing among students

### Design Thinking and Communication II | Team of 4

Evanston, IL

Northwestern University - McCormick School of Engineering

March 2022 – June 2022

- Designed an app identifying plants in the Shakespeare Garden for a client from the Garden Club of Evanston using **Figma**
- Conducted user testing sessions and incorporated feedback to improve user experience and the app's usability

### Web Portfolio

Evanston, IL

Personal Website

September 2022 – January 2019

- Created a custom **HTML**, **CSS**, and **Javascript** website to showcase projects, work experience, and contact information
- Employed streamlined static web hosting by using GitHub pages to optimize web development

### Battleship Game

Evanston, IL

Northwestern University, Fundamentals of Computer Programming 2

September 2022 – January 2019

- Constructed Battleship game from scratch using Northwestern's **GE211** game engine in a **C++** development environment
- Built user-interactive GUI using Model-View-Controller architectural pattern to enable player-driven gameplay

## ACTIVITIES & LEADERSHIP

### President, Northwestern University's National Society of Black Engineers (NSBE) Chapter

March 2023 – Present

- Led a group of 13 executive board members and planned 4+ major events for 200+ engineering students at Northwestern

### Co-Vice President, Northwestern University Emerging Coders

September 2022 – Present

- Co-facilitated 5+ events for 30+ low-income and First-generation students to help them explore careers in computer science

### Team Lead, Northwestern University Information Technology

February 2022 – Present

- Led a team of 7 members and conducted weekly training sessions to improve students' technical software and hardware skills