

# Edom Yared Belayneh

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## EDUCATION

**Central Michigan University**, Mount Pleasant, MI

August 2022 - May 2026

Bachelor of Science in Computer Science & Honors Student

- **GPA: 3.95/4.0**

Relevant Coursework: Object-Oriented Programming, Data Structures & Algorithms, Computation Analysis & Simulation

## TECHNICAL EXPERIENCE

**Headstarter AI**, Mount Pleasant, MI

July 2024 – Present

Software Engineer - Fellowship

- Built 5+ AI apps and APIs with 98% accuracy, engaging 1,000 users, using NextJS, OpenAI, Pinecone, and StripeAPI.
- Led 4+ fellows in MVC projects; coached by Amazon, Bloomberg, and CapitalOne engineers on Agile, CI/CD, Git, and microservices.

**AI On Math**, Mount Pleasant, MI

May 2024 – Present

Research Assistant - Internship

- Investigating numerical methods to solve incompressible Navier-Stokes equations for buoyancy-driven fluids in Python.
- Developing programs that simulate Physics-Informed Neural Networks and Physics-Informed DeepONets for different partial differential equations, including Burger's 2D Equation and Navier-Stokes Equations.

**Academic Support**, Mount Pleasant, MI

August 2023 – March 2024

CS Undergraduate Teacher Assistant

- Prepare a series of review sessions and teach 20 to 30 students, from each lecture the instructor gives.
- Assist students in understanding Java's programming basics and tutor students for each exam and homework due.

## PROJECTS

**Hackathon Reimagine** – *Winner for two consecutive years*

April 2024

- Came in as a Category Winner in 2023 and an Overall Winner in 2024.
- “CentralPayPath” - Designed a four-year cost projection tool with real-time updates for students. (2023)
- “CMU Furniture Forward” - Developed a program for students to donate gently used furniture to students who will be joining the university in future years. (2024)

**Grammy's - Recording Academy** – *Utilized Python in Jupyter Notebook*

November 2023

- Analyzed website interaction data from The Global Tech Experience for both grammy.com and recordingacademy.com.
- Employed skills in data manipulation, graph creation, and statistical analysis using libraries like NumPy, Plotly, and Panda.
- Assessed the impact of splitting the websites, providing valuable insights into trends and audience behavior to support the VP of Digital Strategy's decision and enhance user experience.

**Zombie Apocalypse Game (Z-Lock)** – *Utilized C# in VSCode and Unity*

November 2023

- Incorporated advanced game mechanics such as physics for solid object collisions and gravity.
- Demonstrated proficiency in programming, and implemented tilemap to craft a realistic abandoned building environment.
- Acquired expertise in creating dynamic enemy behaviors that intelligently track and follow the player, even in unpredictable movements.

## TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C, C#, Swift, SQL
- **Development Environments:** Eclipse, Jupyter Notebook, VSCode, XCode, Arduino, Unity
- **Tools:** SQL Pad, GitHub, Wireshark

## CERTIFICATES

**CodePath** -Technical Interview Prep

Currently Pursuing

- Pursuing the TIP pathway to excel in technical interviews and solve industry challenges with CodePath's resources.

**Global Tech Experience** – Python & SQL

October 2023

- Proficient in SQL for data extraction, analysis, and reporting, driving data-driven decision-making.

## STUDENT ORGANIZATIONS & LEADERSHIP EXPERIENCE

**Women In Technology (WIT)**

Vice President

**African Students Union (ASU)**

Secretary

**Rewriting The Code (RTC)**

Member

**ColorStack**

Fellow