



# Edom Yared Belayneh



<https://edombelayneh.github.io/index.html> | (702) 886-3506 | [belayneh1ey@gmail.com](mailto:belayneh1ey@gmail.com) | [www.linkedin.com/in/edombelayneh](https://www.linkedin.com/in/edombelayneh)

## EDUCATION

### Central Michigan University

Bachelor of Science in Computer Science & Honors Student

Mount Pleasant, MI

Anticipated Graduation: May 2026

- **GPA: 3.95/4.0**

Relevant Coursework: Object-Oriented Programming, Data Structures and Algorithms, The Global Tech Experience

## TECHNICAL SKILLS

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

## LEADERSHIP & TECHNICAL EXPERIENCE

### 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.

### IT Media and Services, Mount Pleasant, MI

February 2024 – Present

Student Technician

- Provide Tier 1 audio/visual support for campus facilities, including troubleshooting and training.
- Utilize a ticketing system to document resolutions, perform maintenance, and assist with AV installations/upgrades.

### Women In Technology (WIT), Mount Pleasant, MI

February 2023 – Present

Vice President

- Empower and support women in STEM through professional development, mentorship, and volunteer work.
- Develop different technological workshops and educate ourselves on the hurdles of being a woman in STEM.

### 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](https://www.grammy.com) and [recordingacademy.com](https://www.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.

## 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.