

Edom Yared Belayneh

<http://www.edombelayneh.com/> | (702) 886-3506 | belayneh1ey@gmail.com | www.linkedin.com/in/edombelayneh

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 – August 2024

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

Smart Pantry Tracker Web App – Utilized Node.js in VS Code / [Github Link](#)

August 2024

- Created a web app with real-time recipe suggestions, utilizing Firebase, and GroqCloud API, deployed on Vercel.
- Engineered dynamic state management, secure authentication with advanced React hooks, and real-time updates.
- Designed a responsive, theme-adaptive UI, enhancing user interaction with custom themes and optimized performance.

Grammy's - Recording Academy – Utilized Python in Jupyter Notebook / [Github Link](#)

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 / [Github Link](#)

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

ColorStack (RTC), Fellow

July 2024 – Present

Rewriting The Code (RTC), Member

March 2024 – Present

African Students Union (ASU), Secretary

February 2024 – Present

Women In Technology (WIT), Vice President

February 2023 – Present