

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 3 fellows in MVC projects, resulting in a 100% increase in project completion rate; 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

- Developed Python algorithms to solve incompressible Navier-Stokes equations for buoyancy-driven fluids.
- Engineered programs that simulate Physics-Informed Neural Networks and Physics-Informed DeepONets for Boussinesq and Navier-Stokes Equations, reducing computational time by 23.4% compared to traditional methods.

Academic Support, Mount Pleasant, MI

August 2023 – May 2024

CS Undergraduate Teacher Assistant

- Conducted weekly review sessions for 20-30 students, resulting in a 10% increase in average class performance.
- Provided tutoring in Java programming basics, achieving a 14% average improvement in student exam grades.

PROJECTS

[Github Profile](#)

Smart Pantry Tracker Full-Stack 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, achieving 5 daily users and 32 new users in the first 2 weeks.

AI Flashcard Generator Full-Stack Web App– Utilized Node.js and React in VS Code | [Github Link](#)

August 2024

- Engineered an AI flashcard generator app using Node.js, GroqCloud, and Vercel, optimizing user learning experiences.
- Implemented Groq Cloud for AI-generated flashcards and integrated Stripe for seamless payment processing.
- Designed and implemented a responsive, user-friendly interface with Material-UI, improving user experience and engagement, achieving 17 daily users and 82 new users in the first week.

Zombie Apocalypse Game (Z-Lock) – Utilized C# in VSCode and Unity | [Github Link](#)

November 2023

- Incorporated advanced game mechanics such as gravity physics and collision mechanics, earning 82% positive feedback.
- Implemented a C# tilemap system for a realistic abandoned building, increasing user satisfaction and design by 80%.
- 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, Node.js, React
- **Development Environments:** Eclipse, Jupyter Notebook, VSCode, XCode, Arduino, Unity
- **Tools:** SQL Pad, GitHub, Wireshark, AI Integration, Firebase, Stripe, Vercel, Clerk, Pinecone

CERTIFICATES

CodePath -Technical Interview Prep

August 2024

- Acquired 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