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: **3.97/4.0**

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, AI Integration, Firebase, Stripe, Vercel, Clerk, Pinecone, Jenkins, PM2, Apache, OpenCV

TECHNICAL EXPERIENCE

QUALCOMM, San Diego, CA — May 2025 – August 2025
Software Engineer - Internship

- Implemented a Next.js dashboard that cut debugging time by 60% and centralized sweep data, images, and patches into one interface, boosting cross-team efficiency by 45%.
- Integrated real-time IQ metric access via a Linux-based Apache server, with PM2 runtime, enhancing data retrieval speed by 50% and improving system responsiveness.
- Automated Jenkins pipelines to trigger standalone offline data transport flows upon report generation, streamlining CI/CD processes and reducing manual intervention by 40%.
- Developed a Python script using OpenCV to automatically detect MCC charts for image delta analysis, replacing manual identification and speeding up camera tuning evaluations.

HEADSTARTER AI, Mount Pleasant, MI — July 2024 – February 2025
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.

NATIONAL SCIENCE FOUNDATION - CMU, 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.

PROJECTS — Github Profile

Qlippy – AI Integrated Full-Stack Desktop App - *Utilized Node.Js and React in VS Code* | *Github Link* — June 2025

- Developed a desktop AI productivity app with Next.js + TypeScript frontend and Flask + SQLite backend, enabling offline file management, app launching, and document retrieval.
- Engineered local-first architecture fully deployed on Snapdragon X Elite chips, leveraging SQLite for persistence and ensuring 100% offline functionality.
- Collaborated on a team of 4 to deliver an NPU-accelerated AI assistant GUI, contributing primarily to frontend/backend development while integrating with AI models running directly on-device.

UpdateMe – Full-Stack iOS App - *Utilized Swift in XCode Github Link* — April 2025

- Engineered an iOS app in Swift, UIKit, and Storyboard with a 4-tab navigation system and 10+ interactive features including auto-scheduling and multimedia updates.
- Implemented local data persistence using UserDefaults/JSON, delivering 100% offline functionality and real-time performance in a 2-week sprint.
- Delivered a scalable social connectivity prototype with 100% core feature completion, designed for future Firebase and Convex backend integration.

AiQuickDoc – AI Integrated Full-Stack Web App – *Utilized Node.Js in VS Code* | *Github Link* — August 2024

- Developed a document interaction platform with Next.js and Material-UI, gaining 248 signups in the first week.
- Implemented the entire frontend and core backend, integrating 7 technologies in over 5,000+ lines of code.
- Engineered AI-driven document summarization, automated flashcard generation, and an intelligent chat interface for document Q&A.

STUDENT ORGANIZATIONS & LEADERSHIP EXPERIENCE

- **CodePath,** Member — July 2024 – Present
- **ColorStack,** Fellow — July 2024 – Present
- **Rewriting The Code (RTC),** Member — March 2024 – Present
- **Women In Technology (WIT),** Vice President — February 2023 – Present