

Hero Emenalom

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Professional Summary

Computer Science student with hands-on experience building and shipping full-stack and backend systems. Proficient in serverless architecture, API integrations, and AI-cloud infrastructure on AWS. Currently serving as CTO of an EdTech startup that raised \$50K in pre-seed funding, with internship experience developing production-grade tools used by real customers.

Certifications

- AWS Certified AI Practitioner: Aug 2026-Aug 2029

EDUCATION

University of Maryland, Baltimore County

May 2029

Computer Science (GPA: 3.7)

- **Coursework:** Discrete Structures, Data Structures, Principles of Programming Languages

EXPERIENCE

Cognify | *Chief Technology Officer*

Aug 2025 - Present

- Built a modern intuitive Learning Management System app for teachers and students
- Architected backend infrastructure with Next.js and AWS for secure, SOC-compliant student data storage
- Leveraged Claude Design to generate wireframes for pages to create 4 fully-function pages in 2 weeks
- Delivered investor pitch decks with market sizing and demos across 5+ meetings, closing \$50K in pre-seed capital

FUSE Next | *Software Engineer Intern*

May 2026 - Present

- Developed 5 AWS Lambda functions for 10+ customers to extract, process, and transform over 30,000 rows of their time-series data, enabling faster analytics and actionable insights and creating tailored dashboards to clients to view their data
- Leveraged Retrieval-Augmented Generation on customer-tailored data to improve foundational model accuracy for AI summary and chatbot queries, improving accuracy by 30%
- Monitored and debugged 20+ IOPs exceptions weekly, minimizing production errors by 30%
- Queried targeted data extracts from MySQL databases for internal reporting, delivering weekly dashboards that shortened report preparation time

Tintype | *Software Engineer Intern*

Sep 2025 - Apr 2026

- Developed 40+ MCP tools using OpenAI for a React-based frontend AI assistant used by 30+ teams to automate task and project management across third-party platforms all in one place
- Implemented WebSockets to facilitate streaming tokens between backend and frontend, reducing client-server latency by 60%
- Configured GitHub Actions for CI/CD, enabling automated testing and faster deployments to production

PROJECTS

RosterPro | *Deeper Life Bible Church*

Aug 2024 - Jan 2025

- Engineered a workforce management tool with OpenAI to simplify scheduling and task tracking for my church's Media Team
- Used OpenAI's API to generate weekly tailored schedules from user input, automating weekly spreadsheets and cutting prep time by 73%
- Onboarded 50+ users within the first two weeks of launch

Time Sheet Generator

Jul 2024 - Aug 2024

- Engineered a desktop app to generate a printable document mapping people to assigned tasks
- Implemented weighted bipartite matching in Java to assign users to jobs under availability and priority constraints

Skills

- **Languages:** Python, TypeScript, JavaScript, Java, C++, SQL/MySQL
- **Cloud & Infrastructure:** AWS, AWS Bedrock, Docker
- **Frameworks & Libraries:** Next.js, React, GraphQL
- **Databases & Platforms:** Supabase, Firebase

Extracurricular

hackUMBC | *Event Organizer*

2025 - Present

- Facilitate annual hackathons with 500+ registered attendees and manage website and mobile app updates for the organization