

EDMOND BATCHANKWE, NDANJI

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EDUCATION

University of Maryland, Baltimore County (UMBC)

Spring 2027

Bachelor of Science in Computer Science

Relevant Coursework: Data Structures & Algorithms, Software Engineering, Operating Systems, Computer Architecture, Discrete Structures, Database Management Systems, Computer Networks, Principles of Programming Languages, Linear Algebra

ACADEMIC HONORS & ACHIEVEMENTS

- President's List (Fall 2024) and Dean's List, UMBC
- 35% Merit Scholarship Recipient, UMBC

PROFESSIONAL EXPERIENCE

Software Engineering Intern – Cisco Systems | RTP, NC

Sep 2025 – Nov 2025

- Cut page load and interaction latency by **40%** across Cisco's internal **Model Context Protocol (MCP)** applications by profiling frontend bottlenecks and optimizing render logic, sharpening responsiveness for the engineering teams that relied on the platform.
- Returned for a second term to own the reliability of the **MCP** platform built the prior term, reducing recurring production incidents by **35%** and keeping it stable for **5+ engineering teams** through proactive triage and bug fixes.

Software Engineering Intern – Cisco Systems | RTP, NC

Jun 2025 – Aug 2025

- Built and deployed a decoupled **MCP server** with **FastAPI** and **FastMCP** that connected AI agents to Cisco's internal tools, making each onboarded tool instantly discoverable and callable by an agent rather than wired up by hand.
- Shipped a **Vue.js** dashboard that gave **20+ engineers** a single interface to onboard, configure, and manage **15+ internal tools** on the MCP server, replacing manual setup for each tool.
- Created an **agentic chatbot client** that ran in the browser to validate any onboarded tool against the MCP server from the dashboard, cutting manual tool testing overhead by **40%** so engineers could verify a tool with an agent rather than by hand.

TECHNICAL PROJECTS

TactileLens | Kotlin, Android, LiteRT (TensorFlow Lite), Qualcomm Hexagon NPU, U2Net

May 2026

- Earned **Finalist** honors at the **Qualcomm x Google Developer Hackathon** by building an Android AI app that converts live camera textures into **haptic and audio feedback** in real time, mapping roughness, hardness, friction, and density into multisensory output for low vision accessibility.
- Held the full inference pipeline **under 20 ms**, fast enough to preserve a live illusion of touch, by running it on the **Snapdragon Hexagon NPU** via **LiteRT** and a U2Net segmentation model with a zero copy ByteBuffer path.
- Delivered smooth, consistent output by offloading matrix math to the NPU and mapping texture axes to Android **VibrationEffect** haptics and synchronized Media3 audio, calibrated against empirical material centroids for accurate classification.

BeSeen | Swift, React Native, TypeScript, SQLite, PostgreSQL, Supabase

Dec 2025 – Feb 2026

- Built and launched an iOS wellness app with daily habit tracking, streaks, and partner sharing, scaling it to **200 active users** and **40 connected partnerships** by leveraging **App Store Optimization (ASO)**, **Apple Search Ads**, and organic content.
- Kept core features fully usable offline and partner data in sync in real time by architecting **offline first sync** over on device **SQLite** and **Supabase/PostgreSQL**, built end to end in **React Native** with auth and push notifications.
- Instrumented the app with **PostHog** for product analytics and **Sentry** for error and performance monitoring, enabling **data driven UX**, faster bug fixes, and continuous iteration.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, C++, Go, Swift, SQL

Frontend & Mobile: React Native, Vue.js, SwiftUI, SCSS, Code Splitting, Lazy Loading, Memoization, Web Workers

Backend & APIs: Node.js, Express.js, FastAPI, REST APIs, GraphQL, JWT, OAuth 2.0

Databases: PostgreSQL, MySQL, SQLite, SQL Server, Oracle, Snowflake, MongoDB

Cloud & DevOps: AWS, Vercel, Docker, Kubernetes, GitHub Actions, Jenkins, OpenShift, Azure DevOps Server, CI/CD

AI & ML: LangChain, LangGraph, Core ML, Ollama, n8n, Prompt Engineering

Developer Tools: VS Code, Xcode, IntelliJ, Git, Claude Code, Jira, Confluence, Figma, LucidChart, Excalidraw

Certifications: AWS Certified AI Practitioner, Apple Search Ads Certification

LEADERSHIP & EXTRACURRICULAR

- **Resident Assistant** — UMBC Department of Residential Life
- **Restaurant Manager** — led front of house operations and staff coordination
- **National Society of Black Engineers** — Marketing Director
- **ColorStack** — Member