

IFEANYICHUKWU NWACHUKWU (JEREMY)

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PROFESSIONAL SUMMARY

Driven and highly technical Software Engineer with a passion for building event-driven web architectures, optimized developer tooling, and modern, high-performance user interfaces. Incoming Computer Science honors student with a proven track record of designing full-stack systems ranging from real-time collaborative document engines to extensible local-first developer SDKs and AI orchestration protocols. Experienced in leveraging strongly typed pipelines, efficient package registries (bun and uv), and state-of-the-art serverless backends to ship clean, production-ready code.

TECHNICAL SKILLS

- **Programming Languages:** TypeScript, JavaScript, Python (Strongly Typed), SQL, HTML5, CSS3
- **Frameworks & Libraries:** SvelteKit (Svelte 5 Runes), FastAPI, Next.js, Django, Tortoise ORM, TanStack Start, React
- **Databases & Cloud Storage:** Convex, PostgreSQL, LibSQL (Turso), AWS S3, Google Cloud Storage (GCS), Cloudflare R2, Neon DB
- **Tools & Workflows:** uv (Python package management), Bun (JS/TS package management), Jujutsu (jj), Git, Neovim, Figma, Docker, GitHub Actions

EDUCATION

Morgan State University | Baltimore, MD

Incoming Bachelor of Science in Computer Science | **Expected Graduation: May 2030**

Honors & Awards: Recipient of the Troy E. Quinn Award

Parkville High School | Baltimore, MD

High School Diploma | **Graduated: June 2026**

Destiny Christian Academy | Abuja, Nigeria

High School Studies | **Attended: 2019 – 2024**

TECHNICAL PROJECTS

AppFlowy MCP & Collaborative Document SDK (Python ,FastMCP)

- Architected and developed an open-source, local-first Model Context Protocol (MCP) server and collaborative document SDK for AppFlowy's block-editor engine, enabling LLM orchestration agents to securely query, index, and manipulate structural workspace databases and markdown trees.

Echo Mesh (SvelteKit, Convex, TypeScript)

- Architected and built an event-driven, real-time polling engagement platform using **Svelte 5 Runes** for high-efficiency UI state updates.
- Designed and deployed a companion developer SDK to allow seamless, frictionless third-party integration and real-time state synchronization.
- Leveraged **Convex** for serverless backend execution, achieving ultra-low latency data synchronization and sub-100ms interface updates.

Edutron | HackUMBC 2025 Hackathon Project (Next.js, Convex)

- Developed an AI-powered student task scheduling and academic time-management helper in an intensive 24-hour hackathon environment.
- Integrated real-time reactive database state tracking utilizing **Convex** to securely sync, store, and dynamically prioritize mock student course loads.
- Built the responsive user dashboard using **Next.js**, crafting fluid micro-interactions and ensuring seamless state updates as deadlines changed.

PROFESSIONAL & LEADERSHIP EXPERIENCE

Media Team Lead | Destiny Christian Academy — Abuja, Nigeria September 2023 – June 2024

* Led UI/UX prototyping and creative asset generation in **Figma** for school media channels and digital communications.

- Coordinated a student media team, standardizing asset delivery pipelines to increase creative turnaround speed by 25%.

Voluntary Programming Tutor | Independent — Abuja, Nigeria November 2022 – May 2023 *

Created and taught a custom introductory programming curriculum covering Python scripting, semantic HTML5, and CSS3 layouts.

- Mentored 15+ student peers, helping them design, build, and run their first functional local scripts and simple web pages.

Voluntary Web Design Services | Freelance — Abuja, Nigeria June 2023 – September 2023 *

Consulted local clients on user experience, digital branding, responsive design standards, and modern web architectures.

- Designed interactive web mockups, providing clients with comprehensive strategic roadmaps to successfully launch their websites.

CERTIFICATIONS

- **NIIT Certificate in Python Programming**
- **NIIT Certificate in HTML/CSS & JavaScript**