

Chioma Princess Geraldine Okeke

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EDUCATION

M.S. Computer Science, Arizona State University Expected May 2027
Focus: Cybersecurity | **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming

B.Eng. Computer Engineering, Covenant University Aug 2022
CGPA: 4.67/5.0

TECHNICAL SKILLS AND CERTIFICATIONS

Programming: C++, Python, TypeScript, JavaScript, SQL

Frameworks: React.js, Node.js, Express.js, FastAPI, Django, .NET

Testing/Tools: Jest, Git/GitHub, Linux, Vercel, Heroku

Databases: PostgreSQL, MongoDB

Concepts: RESTful APIs, Role-based Access Control (RBAC), JWT, OAuth2

PROFESSIONAL EXPERIENCE

EdPlus, Arizona State University - Web Application Developer Assistant Aug 2025 – Present

- Developing and extending modular front-end components and backend logic in Salesforce using **Apex** and **Lightning Web Components (LWC)**, applying core software engineering principles within a large-scale cloud platform.
- Improving platform reliability by implementing automated **Jest test suites** covering **85%** of critical components, which reduced regression-related incidents by **30%** and accelerated feature release cycles by **20%**.

Cavista Technology - Software Engineer I, Mar 2023 – Aug 2025

- Built a form-to-model workflow using **Aurelia + TypeScript** that passed structured inputs from the frontend to the backend, enabling auto-generated print-ready clinical views and reducing manual documentation.
- Designed and shipped a dynamic content management feature that allowed users to rearrange page sections to fit their workflow, improving usability and reducing support requests by **20%**.
- Stepped up as acting frontend lead in the absence of a senior engineer, ensuring consistent delivery through cross-team collaboration.

PROJECTS

Simple Compiler (C++/Lexical Analysis and Parsing) Sept 2025

- Explored compiler design by implementing lexical analysis, parsing, and code generation in C++, deepening understanding of language efficiency and data structures.
- Gained deeper insight into abstraction, algorithm optimization, and the software development pipeline from low-level to high-level execution.

Laundry Inventory Management System, Web Application Apr 2025

- Developed a full-featured web app with **Next.js, TailwindCSS, TypeScript, MongoDB, and shadcn/ui**, replacing manual recordkeeping with digital customer registration, item tracking, automated tag generation, and role-based access.
- Improved business operations by automating receipt generation, digitizing payment tracking, and centralizing order records, cutting processing errors and increasing overall staff efficiency by **40%**.

Music Recommender System (Python/ALS Algorithm) Jan 2025

- Engineered a collaborative filtering model in Python using the Alternating Least Squares (ALS) algorithm for personalized music tracks.
- Achieved an **87% accuracy** rate on the holdout set after preprocessing large-scale string data into numerical matrices for effective factorization.

LEADERSHIP & VOLUNTEERING

She Code Africa, Lagos, Nigeria: Co-lead, Frontend Development Arm Aug 2024 – Aug 2025

- Launched a gamified **React.js** challenge, boosting participation by **90%+** and making learning more practical.
- Mentored 50+ members through advanced React workshops, enabling them to apply skills directly in projects and demonstrate measurable growth.