Chidubem Onwuchuluba

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Education

Georgia State University, MS in Computer Science — Aug 2025 - Present
- **Coursework:** Machine Learning, Software Engineering, Computational Intelligence, Mobile App Dev

Covenant University, BS in Computer Science — Aug 2019 - May 2023
- **GPA:** 3.87/4.0 *(Magna Cum Laude)*

Experience

Graduate Teaching Assistant | Georgia State University — Aug 2025 - Present
- Lead lab instruction for 110+ students in Computer Organization Programming, delivering hands-on exercises in assembly language, CPU architecture, and low-level programming concepts
- Conduct weekly office hours and code review sessions, achieving 95% student satisfaction through personalized debugging assistance and technical mentorship
- Collaborate with faculty to design lab materials and develop automated grading scripts, reducing grading time by 30%

Software Engineering Intern | Rotawn Energy — Jan 2025 - Aug 2025
- Developed and deployed a Visitor Management System with automated QR code generation and SMS notifications, reducing entry processing time by 40% and eliminating manual approval bottlenecks
- Designed a Requisition and Expenses Tracking Dashboard using Django and Chart.js, providing real-time visualization of departmental spending patterns and approval workflows, contributing to 3% operational cost reduction within 6 months

Software Engineering Intern | Paystack — June 2024 - Dec 2024
- Engineered multi-tenant SaaS architecture for payment processing platform serving 50,000+ merchants across 15+ financial institutions, ensuring data isolation and regulatory compliance
- Developed RESTful APIs and microservices using Python (Django/Flask) handling 2M+ daily transactions with 99.9% uptime, implementing Redis caching that reduced response time by 45%
- Optimized database queries and implemented CI/CD pipelines, improving deployment frequency by 60% while maintaining zero-downtime releases

Projects

Real Estate Property Management Platform — Website
Django, PostgreSQL, AWS (S3, CloudFront, ELB), JavaScript
- Architected full-stack platform managing 1,000+ properties with 15,000+ monthly visitors, featuring employee portal for CRUD operations and client-facing property sharing via custom links
- Integrated AWS services like Elastic load balancer & CloudFront while achieving 98% uptime and 2-second page load time, improving user engagement by 35%

Attendance Face Recognition System — GitHub
Django, PostgreSQL, JavaScript, PyTorch
- Developed face recognition system achieving 94% accuracy and 97% precision through advanced preprocessing and PyTorch optimization, reducing manual attendance time by 85%
- Deployed end-to-end solution processing 500+ daily check-ins for 3,000+ students, currently in active use at Covenant University

Intelligent Recycling System — Live Demo
PyTorch, React, Django, Computer Vision
- Built AI-powered waste classification platform with 91% accuracy, recommending recycling methods and calculating environmental impact for 6 waste categories
- Integrated geolocation API to suggest nearest recycling centers based on waste type, deployed full ML pipeline with Docker

Technical Skills

Programming Languages: Python, C++, C, Java, SQL, JavaScript, HTML5/CSS, Dart

Frameworks & Libraries: Django, Flask, PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, React, Next.js

Cloud & DevOps: AWS (EC2, S3, CloudFront, ELB), Google Cloud Platform, Docker, Git/GitHub, Linux

Databases & Tools: MySQL, PostgreSQL, MongoDB, Redis, REST APIs, Microservices Architecture

Honors & Awards

HackATL Finalist (2025) - Developed a predictive risk intercept system using NASA VOC sensor technology to prevent drink manipulation. Built real-time safety dashboard with chemical detection and automated emergency alerts within 48 hours

Academic Excellence (2023) – Graduated with 3.9/4.0 CGPA, ranking top 2% of Computer Science class at Covenant University

Certifications: IBM AI Developer • Deep Learning with PyTorch • Full-Stack Web Development (Udemy)