

Chukwuebuka Michael Umeh

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EDUCATION

Southeastern Louisiana University

Expected: May 2027

Bachelor of Science in Computer Science — GPA: 3.88/4.00

Hammond, LA

Relevant Coursework: Data Structures & Algorithms, Software Engineering, Artificial Intelligence, Database Systems

Awards: SELU Presidents List and Dean's List, Honors Program Scholarship, Southeastern Honors Scholar.

TECHNICAL SKILLS

Programming Languages: TypeScript, Go, JavaScript, Java, PHP, Python, HTML/CSS, C++, SQL

Frameworks: React, Next.js, Node.js, ASP.NET, Tailwind CSS, Bootstrap, Django, PyTorch

Protocols: TCP/UDP, HTTP/HTTPS, TLS/MTLS, DNS, DHCP, FTP/SFTP

Developer Tools: Git, GitHub Actions, REST APIs, WebSockets, CI/CD, Version Control, Figma, Linux

Databases & Cloud: Linux, REDIS, MySQL, Microsoft SQL Server, Supabase, Firebase, Oracle OCI

EXPERIENCE

Backend Engineering Intern

July 2026 - Present

FlyRank AI

Remote

- Built a modular backend REST API system via SQLite & Swagger, increasing onboarding 40% for 50+ developers
- Analyzed unfamiliar codebases to apply framework patterns in backend development, cutting setup time by 10%

Technical Support Specialist — Southeastern Louisiana University

Feb 2024 - July 2026

Center for Faculty Excellence

Hammond, LA

- Led **tier-1 IT support** for 9+ faculty, solving Canvas, hardware, & software issues, cutting resolution time 40%
- Built Claude-powered automation scripts to improve workshop setup for 8 faculty, cutting tool setup time by 40%
- Implemented AI-assisted ticketing & task delegation workflows using Claude, cutting documentation time by 30%

AI-Powered Document Intelligence & Data Extraction Extern

June 2026 - August 2026

Pfizer Externship Program

Remote

- Developed AI-powered document intelligence workflows using **RAG**, with Python, embeddings, semantic search and LLMs to extract and retrieve insights from 5+ pharmaceutical documents, reducing manual review time by **40%**.
- Implemented metadata filtering, query routing, and vector search, improving extraction precision by 80%.

Cybersecurity Extern — Hydroficient

March 2026 – May 2026

Hydroficient Externship Program

Remote

- Built **HydroGuage**, a real-time water-monitoring security console with multi-zone alerts and operator dashboard.
- Implemented **HMAC-SHA256, TLS/mTLS encryption, replay protection** with attack simulators using **Python, REST APIs, & HTTP/TCP/UDP Protocols**, validating performance at up to 100 msgs/sec.
- Built Argus, a live log analysis tool for HydroGuard, enabling real-time anomaly detection across 5 event streams.

AI Automation Engineer Extern — Wayfair

Dec 2025 – Feb 2026

Wayfair Externship Program

Remote

- Built scalable **multi-agent AI workflows** with modular architecture using **n8n & JavaScript**, reducing manual research time by **60%**, improving work solidity by **40%**, & reducing formatting errors by **35%**
- Developed 8+ AI agents for **trend discovery, competitor monitoring, insights, and content generation**, enabling **50% faster market analysis**.

PROJECTS

BayouCare | .NET, C#, React, TypeScript, Python, Tailwind CSS

Sep 2026 – Oct 2026

- Competed solo at Nexus DevDays Louisiana, building a full-stack cancer care platform with interactive maps, clinic discovery, & patient dashboards, targeting **40% clinic search rate & 30% healthcare resource accessibility**.

PridePath | Next.js, TypeScript, Supabase, Python, Gemini API

April 2026

- Built an AI study platform that turns PDFs into quizzes via **Next.js & Gemini API**, cutting study time by **40%**
- Added **gamified learning modes**, with mastery tracking & wellness coach, increasing engagement by **50%**.

AtmoWise | Next.js, Supabase, Tailwind, TypeScript, AirNow API, OpenAQ

Sept 2025

- Built an air quality tracking platform, improving **data sync efficiency by 40% & maintaining 99% uptime**.
- Cut mobile latency by **35%** through dual **AirNow/OpenAQ API integration**
- Built an open, reactive Tailwind UI for location-based AQI insights, **cutting user navigation steps by 20%**.