Obaloluwa Wojuade

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Education

Morgan State University — Baltimore, MD
Bachelor of Science in Computer Science & Cloud Computing | GPA: 4.0/4.0 — *Expected Dec 2027*

Publications

BIO-DQNA-CLR — IEEE BIBM 2025
- Co-authored a peer-reviewed publication at IEEE BIBM 2025 (MABM Workshop); presented internationally in Wuhan, China.

Technical Skills

Languages: Python, C++, JavaScript/TypeScript (ES6+), SQL, Bash
Frameworks: React, Next.js, Node.js, FastAPI, Flask, Vite, Tailwind
Cloud/DevOps: AWS (EC2, Lambda, S3, Bedrock), Azure (AKS, Entra ID), Docker, Kubernetes, ArgoCD, GitHub Actions, CI/CD
Databases: PostgreSQL, MongoDB, Redis, Supabase
AI/ML: Anthropic Claude API, Azure OpenAI, PyTorch, TensorFlow, YOLOv11, Pandas, NumPy, OpenCV, Prompt Engineering

Experience

Software Engineering Intern, Generative AI — Jun 2026 – Aug 2026
John Hancock (Manulife) — *Boston, MA*
- Shipped a full-stack **prompt-enhancement feature** for an internal AI chatbot serving Manulife's Global Wealth & Asset Management group, rewriting user prompts via Azure OpenAI behind an Accept/Discard preview; delivered across 3 PRs.
- Optimized the chatbot's **Agent Skills** and authored a standardized skill-submission template and worked example so business teams could self-serve new skills; led a knowledge-transfer session to hand it off.
- Moved LLM model and system-prompt config into the database so behavior tunes without redeploys; wrote Flyway-style migrations across dev/UAT/prod and verified rollout via kubectl logs on a GitHub Actions → ArgoCD → AKS GitOps pipeline.
- Built a full-stack File Injection Report page with a custom React hook over an axios client, resizable-column table, and client-side CSV export (parallel pagination + RFC-4180 escaping), integrated against a backend engineer's API.

Software Engineering Intern, Sustainability Solutions — May 2026 – Jun 2026
CBRE, Americas Sustainability Solutions — *Remote*
- Developed **PM Sustainability Hub** (FastAPI, React/TypeScript, Tailwind), cutting a multi-hour manual Excel compliance workflow down to minutes; adopted on live client data.
- Engineered a reconciliation pipeline (pandas, Pydantic v2) ingesting 9 heterogeneous exports (Deepki, ENERGY STAR, PULSE/iTrack), with an entity-resolution engine using deterministic ID joins and Claude LLM fallback matching.
- Integrated agentic features (property matching, outreach email drafting, compliance-deadline inference from unstructured ordinances), each with deterministic fallbacks; deployed as a password-gated **Docker** container.

AI/ML Research Intern — May 2025 – Aug 2025
CEAMLS, Morgan State University — *Baltimore, MD*
- Designed and implemented BIO-DQNA-CLR, applying meta-learning and contrastive reinforcement learning in physiologically constrained **PyTorch** simulation environments; achieved a 94% success rate, 52% above baseline methods, with improved long-term generalization.

Projects

PathReview (Open-Source Contribution) | *Python, FastAPI, pytest* — Jul 2026 – Aug 2026
- Contributed a bug-fix pull request correcting a path-matching defect that misclassified a repository's primary language (segment-based directory exclusion); debugged across an unfamiliar codebase and hardened the fix with 27/27 tests passing.

IT Self-Service Portal | *Next.js 14, PostgreSQL/Supabase* — May 2026 – Aug 2026
- Built and deployed a live self-service IT support portal (it-self-service.vercel.app) used by Morgan State students and staff: full-text search across 18 guides in 9 categories, an admin CMS, and search/feedback analytics.
- Added an **AI fallback** that generates a guide when no match exists and caches it in PostgreSQL, so repeat questions resolve from the database instead of a new model call; secured the route with rate limiting, input validation, and parameterized queries.

Harvest Commit (Morgan Tech Fest) | *React, TypeScript, Node.js, Twilio, LLM* — Sep 2026
- Co-built an AI harvest-planning prototype reconciling changing buyer orders, field estimates, and crew into one farmer-approved daily plan, with a deterministic planning engine, version-coded SMS approval (Twilio), and an LLM order-extraction path.

Leadership & Impact

IT Support Specialist | System Deployment & Technical Resolution — Sep 2024 – Present
Morgan State University — *Baltimore, MD*
- Maintain 500+ campus assets with a 95% first-resolution rate across hardware and network systems.

CodePath Certification | Applications of AI Engineering (AI 201) — Summer 2026

CodePath Student Ambassador — Aug 2025 – Feb 2026
- Scaled CodePath's presence at Morgan State, generating 93 applications (52% YoY growth) and increasing admissions 42% for Spring 2026.