

MOBOLAJI OGUNBIYI

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EDUCATION

University of Maryland

Expected May 2027

B.S. Computer Science and B.A. Psychology | GPA: 3.63/4.00 | Meyerhoff Scholar | President's List and Dean's List

TECHNICAL SKILLS

Languages: TypeScript, Python, JavaScript, SQL

AI/ML: Machine learning, LLM applications, AI agents, agent orchestration, RAG, prompt engineering, NLP, computer vision, TensorFlow, OpenCV

Frameworks & Platforms: React, Next.js, Node.js, Flask, Tauri, Vercel AI SDK, Cloudflare Workers, Vercel

Backend, Data & Testing: REST APIs, OAuth, webhooks, PostgreSQL, SQLite, Supabase, Cloudflare D1, Vitest, Playwright, Git

EXPERIENCE

Kora Studio | Founder and Software Engineer

May 2026 - Present

- Founded and led a software studio, shipping eight client websites and operational systems across healthcare, food service, wellness, and consulting while generating approximately \$7.4K in profit.
- Engineered full-stack Next.js/TypeScript applications with PostgreSQL, Supabase, and D1, including authentication, admin dashboards, CRM, content management, booking, ordering, and payment workflows.
- Integrated Salesforce, Cal.com, Outlook/Teams, Square, email, and AI-assisted workflows through REST APIs and webhooks with validation, rate limiting, testing, CI/CD, and ongoing client support.

M&T Bank | Technology Intern

Jun 2025 - Aug 2025

- Collaborated with a project partner to build and deploy a Python/Flask and React/Vite NLP application that translated document descriptions into ranked retention-code recommendations, replacing a manual mapping workflow.
- Evaluated TF-IDF and ConceptNet Numberbatch retrieval with cosine similarity on labeled records, achieving over 80% top-1 accuracy before selecting the production approach.

JUNEBRAIN Inc. | Software Engineering Intern

Jan 2025 - May 2025

- Developed a real-time Python/OpenCV computer-vision pipeline for an ophthalmic prototype to localize pupils, estimate 2D gaze, and flag misaligned or low-quality frames.
- Collaborated with an engineering mentor to evaluate TAO GazeNet and adapt GazeML for eye-only TensorFlow 2 inference on NVIDIA Jetson Nano, adding pupil-geometry and multi-camera validation.

University of Maryland DAMS Lab | Undergraduate Researcher

Oct 2024 - Present

- Collaborated with lab researchers to build reproducible Python scraping and local-LLM/NLP workflows for detecting and analyzing changes in smart-IoT privacy policies.
- Designed an agentic prompt-optimization loop that generated and refined prompts against 500 gold-labeled examples, improving classification F1 score from 0.42 to 0.71.

SELECTED PROJECTS

Kora | Local-First Personal AI Agent

Dec 2025 - Present

- Extended pi.dev's open-source agent and AI runtime into a local-first Windows assistant that turns natural-language requests into multi-step actions across personal knowledge, schedules, projects, documents, and browser/desktop applications.
- Engineered Kora-native orchestration, context retrieval, typed tools and skills, durable SQLite state, and one authenticated runtime shared by a Tauri desktop app, CLI, and Chrome extension.
- Built automated evaluations with synthetic personal histories across 185 search scenarios, returning every correct result within the top five and achieving a 99.2% ranking-quality score with zero safety or data-integrity failures.

KS App | Multi-Tenant Business Operations Platform

May 2026 - Present

- Built a multi-tenant platform for CRM, projects, finance, communications, campaigns, knowledge, reporting, automation, and client operations using Next.js, TypeScript, PostgreSQL, and Supabase.
- Engineered a tenant-aware AI business operator that selects skills and tools to update records, prepare documents and communications, analyze operations, generate reports, and execute multi-step workflows from natural-language requests.
- Created an automated benchmark with synthetic business data, evaluating three companies through 15 checkpoints spanning simulated month-long operations and verifying outcomes through saved records, generated artifacts, action histories, safety checks, and regression tests.

WorldBuilder | Durable AI World-Generation System

Jan 2026 - Present

- Built a durable AI generation system that transforms creative direction into a governed world model, connected lore, narrative structure, readable edition, and versioned software package.
- Designed checkpointed workflows that separate model proposals from validated state, preserve provenance, and support safe pause, replay, branching, and recovery across long-running generation.
- Created an independent 18-dimension evaluator and evidence-driven repair agent that diagnoses and revises weak generations, backed by 511 passing offline tests.