

Oluwatoni Akintola

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EDUCATION

University of Notre Dame | Roe Stamps Scholar

Notre Dame, IN

Computer Science & Economics (GPA 3.84/4.0)

Aug. 2022 – May 2026

Coursework: Linear Algebra (proof-based), Data Structures (TA), Systems Programming, Game Theory, Discrete Mathematics (TA), Theory of Computing, Multivariable Calculus, Compilers & Language Design

Activities: Neo Scholar, J.P. Morgan Chase Code for Good Hackathon (**Winner**), Notre Dame MAA Putnam Team, ND Colorstack (**Chapter co-founder**), Quant Club (**Managing Director**), CS4Good (**Project Leader**)

EXPERIENCE

Applied AI Engineering Intern

May 2025 – August 2025

Watershed

San Francisco, CA

- Built a modular data transformer agent that reshapes and validates Fortune 500 customer data dumps, reducing manual cleanup and cutting a projected \$500K+ in contractor costs.
- Implemented end-to-end observability system for AI agent operations, tracking LLM completions and tool usage across Watershed's internal systems to enable faster debugging and improve system reliability.
- Developed comprehensive benchmark dataset and automated evaluation pipeline to continuously monitor agent performance, enabling data-driven optimization and quality assurance for production deployments.

Entrepreneur in Residence

January 2025 – May 2025

Neo

San Francisco, CA

- Co-created a software development toolkit for early-stage founders, streamlining the development of agentic AI software, AI voice agents, and DevOps infrastructure.
- Advanced Topos Bio's drug discovery efforts by implementing an AI diffusion model that generates distributions of protein conformations based on protein sequences.

Evolutionary Game Theory Research Engineer

June 2024 – Present

University of Missouri

Remote

- Built & maintained **Emergent**, an open-source environment enabling researchers to create and run agent-based models, available on **PyPI**.
- Developed EDEN (Economic Design Engine), an LLM-driven evolutionary search system for optimal mechanism design that achieves 4 orders of magnitude better sample efficiency than RL-based approaches.
- Validated EDEN across 3 independent runs on queuing mechanism design, achieving mean fitness within 0.003% of theoretical optimum and independently rediscovering key theoretical insights about information opacity.
- Training an agent to play Flappy Bird optimally using evolutionary search with GPU-accelerated fitness evaluation programmed directly in C++/CUDA, achieving significant speedup over CPU-based approaches.

PROJECTS

Logos: Natural Language Agent Builder | *Next.js, MCP, OAuth2, TypeScript*

April 2025 – June 2025

- Built a distributed system enabling users to create and deploy AI agents using natural language prompts, running sandboxed workloads in cloud containers.
- Implemented secure authentication flow with encrypted OAuth2 token storage and credential management.

Software Contracting | *React.js, Python, NLP, Vector DBs, C++*

October 2022 – Present

- Earned 5 figures delivering full-stack applications and AI systems for healthcare startups, AI companies, and VCs.
- Built an agentic database for an AI ad agency enabling natural language queries across video and text modalities (e.g., "ads with \geq \$50k spend featuring furry blue monsters"), processing complex multi-modal semantic search at scale.

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript/TypeScript, SwiftUI, Go, UNIX, STATA, LaTeX

Frameworks: React, Node.js, Django, Next.js, Tailwind CSS, Postman, PyTorch, Numpy, Pandas

Developer Tools: Git, Docker, MongoDB, Google Cloud Platform, VS Code, Visual Studio, Supabase, XCode

Interests: Meditation, Running, Social Activism, Literature (especially Old Western Novels), Poetry