

# Obinna Nwachukwu

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## EDUCATION

<b>Georgia Institute of Technology</b> Bachelor of Science in Computer Science, Minor in FinTech	Atlanta, GA May 2026
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## EXPERIENCE

<b>Cisco Systems</b> Technical Intern I	Research Triangle Park, NC Jun 2025 – Aug 2025
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- Built recommendation API, session store, and ETL tooling using Python, FastAPI, SQLite, LangGraph, Azure OpenAI, Java Spring, and Angular
- Collaborated with stakeholders through code reviews, deployments, and cross-team integration workflows

<b>Georgia Tech VIP Program</b> Full Stack Developer	Atlanta, GA Jan 2024 – May 2025
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- Developed AI-driven study tools with RAG indexing, LLM integrations, and FastAPI backend deployed on GT's PACE supercomputer
- Led full-stack development and system design, coordinating code reviews, releases, and weekly team meetings

## PROJECTS

<b>Stirixi</b>   <i>Snowflake, MongoDB, FastAPI, Next.js, Solana, Docker, CI/CD</i>	Nov 2025
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- Won Best Use of Solana and Microsoft for Startups (\$25k credits) at AI ATL hackathon for engineering analytics platform
- Built analytics dataset from Kaggle GitHub PR data and designed ML models for engineer performance scoring
- Deployed production Next.js app on Vultr with SSL/Let's Encrypt and GitHub Actions CI/CD for automatic deployment

<b>Interview Prepper</b>   <i>Next.js, Firebase, OpenAI APIs, Product Analytics</i>	May 2025 – Sep 2025
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- Co-founded AI interview-prep platform; launched to 200+ registered and 1,000+ active users within two weeks
- Implemented full-stack features with Next.js, Firebase, OpenAI APIs achieving 70%+ onboarding completion rate

<b>AI Study Suite (StudyBuddy)</b>   <i>Python, FastAPI, Next.js, RAG, LLMs</i>	Aug 2024 – May 2025
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- Built context-aware RAG chatbot with source-verifiable answers and two-pass quiz generator from lecture content
- Led development within 4-member team via structured weekly planning, code reviews, and task delegation

<b>Custom MapReduce Framework</b>   <i>C++, gRPC, Concurrency, Distributed Systems</i>	Apr 2025
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- Built MapReduce framework with synchronous gRPC and multi-threading for reliable worker state management
- Prevented record-splitting by aligning input shards on newline boundaries to ensure distributed data integrity

<b>Distributed Store with Async RPC</b>   <i>C++, gRPC (async), Concurrency, Networking</i>	Mar 2025
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- Built asynchronous gRPC client/server enabling concurrent vendor queries with completion queues
- Reduced client query latency by up to 5x via parallel backend calls and custom threadpool implementation

## LEADERSHIP & COMMUNITY ENGAGEMENT

<b>Georgia Tech Student Government Association</b> Computer Science Representative	Atlanta, GA Mar 2024 – Present
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- Represented and advocated for ≈ 5,000 CS undergraduates in legislative sessions and policy discussions, elected by 500+ peers

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript/TypeScript, C++, C, SQL, HTML/CSS

**Frameworks & Libraries:** React, Next.js, Node.js, FastAPI, Flask, LangGraph, React Native, Spring, Angular

**Databases & Tools:** MongoDB, SQLite, Firebase, Milvus, Git, Docker, Kubernetes

**Cloud & AI:** AWS, Azure, GCP, OpenAI APIs, Azure OpenAI, Google Gemini, RAG, LLMs