

Phanidhar Akula

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EDUCATION

Master of Science in Computer Science

Miami University | *Oxford, OH – Aug 2024 – May 2026*

GPA: 3.83

Relevant Coursework: Generative AI, Software Quality & Testing, Machine Learning, Advanced Database System, Cryptography

Bachelor of Technology in Computer Science

Malla Reddy University | *Hyderabad, TG – Aug 2020 – May 2024*

GPA: 3.26

Relevant Coursework: Web Design and Development, Data Structures using Python, Operating System, Full Stack Web Development

EXPERIENCE

Graduate Assistant

Miami University – Department of Computer Science & Software Engineering

Oxford, OH – Aug 2025 – May 2026

- Assist faculty with course delivery, grading, lab demonstrations, and personalized student mentoring sessions.
- Conduct AI-based geospatial research on digital cities using the Ohio Supercomputer Center (OSC).
- Coordinate technical workshops, academic resources, and student support programs to enhance engagement and success.

President

Miami University – Graduate Students of Color Association (GSCA)

Oxford, OH – Aug 2025 – May 2026

- Lead a university-wide graduate organization promoting diversity, equity, inclusion, and leadership development.
- Organize impactful panels, cultural events, networking mixers, and targeted career-building workshops.
- Collaborate with departments, alumni, and external partners to expand outreach and strengthen community visibility.

PROJECTS

Modeling and parallel simulation of daily commute in urban areas (Master's Thesis)

- Built a parallelized agent-based simulation of urban commutes using MPI/OpenMP, improving scalability and runtime efficiency.
- Integrated OpenStreetMap and census data to model real-world road networks and commuter flows.
- Benchmarked performance across 10k–100k agents, demonstrating speedup and practical applications for smart city planning.

LumiAI: AI-Powered Educational Platform

Live: studywithlumi.com – Mar 2025 – Present

- Built an AI platform for students with study material upload, flashcard generation, quiz creation, and chat-based learning.
- Integrated TTS/STT voice features and Falcon LLM to enable conversational, voice-driven learning support.
- Developed a scalable and reliable full-stack application using React, FastAPI (Python), Supabase, PostgreSQL, and AWS.

SKILLS

Languages: Python | JavaScript | TypeScript | Java | HTML | CSS | SQL | Bash

Frameworks & Design: React | Next.js | Node.js | FastAPI | Redux | Tailwind CSS | UI/UX Design | Responsive Design | SEO | Figma

Tools & DevOps: Git | Docker | Postman | Supabase | PostgreSQL | MongoDB | AWS | Vercel

AI & Data: Machine Learning | Generative AI | Large Language Models | PostGIS | Ohio Supercomputer Center (OSC)

Core Concepts: Object-Oriented Programming | Data Structures & Algorithms | API Design | Cryptography | Software Testing

Professional Skills: Time Management | Problem Solving | Communication | Adaptability | Leadership | Teamwork | Quick Learner