

SIDDHARTH KATABATHULA

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EDUCATION

University of Cincinnati

Bachelor of Science in Computer Science. Dean's List: Fall 2025, Spring 2026. (GPA: 3.93 / 4.00)

Expected May 2030

Cincinnati, Ohio

TECHNICAL SKILLS

Languages: Python, C++, Java, C, C#, JavaScript/TypeScript, MATLAB, HTML/CSS

AI/ML: TensorFlow/Keras, scikit-learn, OpenCV, NLTK, LangChain/LangGraph, LLMs, RAG, OCR

Web: React, Vue.js, Node.js, FastAPI/Flask, REST APIs

Cloud Infrastructure: AWS (EC2, S3, IAM, Lambda), Docker, Linux, Nginx, DNS, SSH, Tailscale, Virtualization

Tools Systems: Git, POSIX Shell, VS Code, JetBrains IDEs, Android Studio, Godot, Unity, VMware, 3D Printing, Microsoft Office Suite

CERTIFICATES

AWS Certified AI Practitioner

July 2026

Python Certified Associate Programmer (PCAP)™

June 2025

Cybersecurity for Everyone

July 2025

RoboX Level 3 certificate by Jay Robotics

July 2017

EXPERIENCE

IT & Industrial Technology Intern

July 2026

Qatar Aluminium Extrusion Co.

Al-Rayyan, Qatar

- Supported IT operations while gaining exposure to enterprise networking, firewall security, email spam filtering, and user support.
- Worked with SAP ERP configuration and learned how enterprise systems integrate business processes across departments.

Web Development & Cloud Hosting Intern

April 2025 – June 2025

Kreative Hunks

Remote

- Deployed and managed websites, handling hosting setup and updates.
- Optimized site performance through image compression, caching strategies, and frontend load-time improvements.

E-Commerce Development Intern

June 2024 – August 2024

Kreative Hunks

Remote

- Executed on-page and technical SEO strategies, including keyword research and metatag optimization.
- Analyzed website performance using tools such as Google Analytics and Search Console to track traffic, rankings, and conversion trends.

PROJECTS

Camera-Based Spatial Hand Tracking | Python, OpenCV, MediaPipe, AprilTags, Open3D, NumPy

August 2026

- Built a multi-camera 3D hand-tracking pipeline using MediaPipe landmarks and AprilTag-based camera pose estimation.
- Developed camera pipelines with OpenCV and ADB-streamed phone cameras, including continuous pose updates during calibration.

AIDCore | Python, LangGraph, LangChain, Ollama, Agentic AI, LLMops, Prompt Engineering

April 2026

- Built a modular local AI agent framework using LangGraph enabling LLMs to autonomously discover and invoke developer-defined tools.
- Implemented local LLM execution using Ollama with support for 5+ open-source models and agent workflows using LangGraph.

Billify, RevolutionUC — University of Cincinnati | Python, React, FastAPI, OCR, Backend Development

April 2026

- Designed privacy-first pipeline with multi-pass privacy filtering using local OCR + PII redaction models before sending data to cloud LLM.
- Integrated Google Gemini API to identify suspicious charges and create appeal letters for users when needed.

QACA Cancer Health Chatbot, Birla Public School | Python, NLP, Intent Classification, Data Preprocessing

December 2023

- Built an intent-classification chatbot using a neural network for query classification and NLTK-based text preprocessing.
- Presented the system at the Qatar Youth Science Forum.

Boids Swarm Simulation | Godot, GDScript, Computational Simulation, Swarm Intelligence, 3D Graphics, Multithreading

August 2025

- Developed a 3D Boids-based flocking simulation modeling 500+ autonomous agents to recreate decentralized agent interactions.
- Implemented configurable steering behaviors and simulation controls, obstacle avoidance and multithreaded real-time simulation.

ACTIVITIES & COMPETITIONS

UC CubeCats, Member, University of Cincinnati | Embedded Systems, Arduino, Sensors, Aerospace Systems

August 2025 – May 2026

- Contributed to onboard sensing and avionics systems; successfully launched the satellite to 104,000 ft and recovered collected data.

Ohio CTF Challenge, University of Cincinnati | Cybersecurity, Python, Cryptography, Web Exploitation, Reverse Engineering

March 2026

- Solved challenges in cryptography, web exploitation, forensics, and reverse engineering; Ranked 21st among 200+ teams in the Ohio CTF.

HONORS

Dean's List, University of Cincinnati

Fall 2025, Spring 2026

International Informatics Olympiad: Gold Medal of Excellence, International 1st Rank (Class XII)

June 2025

International Informatics Olympiad: Silver Medal, State 2nd (Class XI)

June 2024

Available for Co-op Spring 2027 (on F1 Visa)