SIDDHARTH KATABATHULA

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

EDUCATION

University of Cincinnati Expected May 2030

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

TECHNICAL SKILLS

Languages: Python, C++, Java, C, C#, JavaScript/TypeScript, SQL, MATLAB, HTML/CSS
AI/ML: TensorFlow/Keras, scikit-learn, OpenCV, NLTK, LangChain/LangGraph, LLMs, RAG, OCR, Ollama
Web & Backend: React, Vue.js, Node.js, FastAPI/Flask, REST APIs, Pydantic, WebSockets
Databases & Security: PostgreSQL, MySQL, Redis, SQLite, Cryptography, Nmap, Wireshark
Cloud & Infrastructure: AWS (EC2, S3, IAM, Lambda), Docker, Linux, Nginx, DNS, SSH, Tailscale, Virtualization, Proxmox, VMware, Samba
Development & Automation: Git, GitHub Actions, Postman, Codex, Claude Code, VS Code, JetBrains IDEs, Android Studio, Godot, Unity
Embedded Systems: ESP32, Arduino, Raspberry Pi, SPI, I^2C, I^2S, PWM, ADC, DAC, BLE, LVGL

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

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