

VISHESH ANAND

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Education

University of Cincinnati, OH

Graduating April 2027

B.S. Computer Science, University Honors Program

GPA: 3.9

Awards: Startup Weekend Winner (Edge AI) • Teaching Assistant of the Year • Sophomore of the Year (Spring 2024)

Skills

- **Languages:** Python (NumPy, SQL, Flask), C++ (OOP), Java (Spring Boot), TypeScript, LC-3 (Assembly)
- **Frameworks & Tools:** LangGraph, PyTorch, scikit-learn, TensorFlow, Keras, React JS, Next.js, Tailwind CSS,
- **Databases & Infra:** MySQL, PostgreSQL, MongoDB, Chroma DB, Docker, KeystoneJS, Git, GraphQL, Prisma
- **Cloud & DevOps:** Microsoft Azure, Amazon EC2, Hugging Face, Kubernetes, CI/CD Pipelines (GitHub Actions), Render
- **AI Tools:** MCP, RAG Systems, Langfuse, OpenAI API, Hugging Face Transformers, Computer Use Agents, Cursor

Experience

Research Assistant – CincyNLP Lab, Dr. Tianyu Jiang | *Cincinnati, OH*

August 2025 – Present

- Reproduced RL setups from reasoning papers (Qwen 7.5B); evaluated LLMs on math/code with Hugging Face's pipeline.
- Fine-tuned BERT for 6-class embodied emotion detection via ensemble learning and regularization.

VC Associate, Bearcat Ventures (Student Led \$1M Fund) | *Cincinnati, OH*

Jan 2025 – Present

- Conducted due diligence on early stage (seed & pre-seed) startups shaping \$25K SAFE investments per deal
- Spearheaded deal sourcing automation as part of Deal Flow by building Selenium/LinkedIn scraping and DM outreach system, doubling fund's pipeline; added Gimbal Space (spacetech) to our pipeline
- Led due diligence for \$100K Series A investment in TBI headsets, securing approval in <1 month as an exception deal

Bio-Informatics Research Assistant, Dr. Danny Wu | *Cincinnati, OH*

Jan 2024 – Jan 2025

- Developed and maintained a full-stack data management dashboard for Cincinnati Children's HIRC, used by 200+ researchers to store and manage clinical research and patient data
- Built backend endpoints using Python Flask, optimized SQL queries enabling faster data retrieval, resolved 100+ tickets

AI Solutions Co-op, Kinetic Vision | *Cincinnati, OH*

April 2024 – July 2024

- Spearheaded development of an internal AI Agent deployed on a lobby kiosk, enabling voice-based natural language queries on company operations, team functions etc; customized UI, response tone, and fallback logic for robust user experience
- Trained and deployed CNN-based YOLOv5 machine vision model using synthetic product images; optimized with regularization and data augmentation to achieve low loss (<0.5) for robust product recognition in client deployments
- Led dev and feature prioritization of a B2B product testing platform with GraphQL, JS, and PostgreSQL for CPG clients

Software Engineering Co-op, Kinetic Vision | *Cincinnati, OH*

Aug 2023 – Dec 2023

- Enhanced an interactive building resource map to visualize employee locations and roles, with direct meeting room booking via Google Calendar API, deployed on a cloud-hosted Docker container using AWS EC2
- Co-led end-to-end development of a client facing volunteer registration portal using TypeScript, Keystone, and React; handled system design, Agile workflows, and SDLC, delivering a production-ready web app

Projects

Kite – “Cursor for GitHub” (Agentic CLI Version Control) | [Open AI oss Hackathon](#)

Aug 2025 – Present

- Developed custom MCP based tools (Golang CLI Agent + web dashboard) enabling natural language control over PRs, commits, branch operations, and pushes leveraging GitHub APIs and Copilot
- Automated intelligent PR splitting and RAG based knowledge retrieval for commit Q&A, enabling users to query PRs/commits

memARY, Cal Hacks 2025 (3rd Place Winner) | [Snap AR Track](#) | [Devpost](#)

October 2025

- Engineered an AI powered wearable platform on Snap AR Spectacles that transforms visual/audio inputs into structured, searchable memory using Reka vision models and ChromaDB for semantic retrieval (RAG)
- Developed Integrated Poké's MCP microservice (deployed on Render) with the memory engine, enabling users to store, search, and recall memories seamlessly across mobile and web platforms without requiring the glasses

XStream, MCP Server Hackathon 2025 | [Github](#)

October 2025

- Built and demoed a TypeScript-based MCP server, using mcplite, on Cloudflare Workers that posts images and text to X (Twitter) via OAuth 1.0a, using Cloudflare D1 SQL for backend storage and user data management in this 2-hour hackathon
- Leveraged Cloudflare Workers AI for image generation, enabling automated media posts, with scalable serverless deployment and end-to-end workflow from draft to live tweet

Admonos, Hack MIT 2025 | [YC Track](#)

September 2025

- Reimagined YC company Superside as “Admonos,” a fully automated AI native platform for ad creation, posting, A/B testing
- Users describe campaign goals in natural language; system uses Claude Computer Use API to create ad creatives (Veo v3), post via MCPs, and analyze performance with platform APIs (FB/IG Graph, Google Ads) for instant, data-backed iteration.

Just-Hurry!, Hack Harvard 2024 | [Devpost](#)

October 2024

- Built a scikit-learn regression model and web app in under 36 hours to predict hurricane impact zones, using SQL backed datasets (wind speed, air pressure, population density) to guide disaster relief allocation
- Developed a web platform with Next.js, Python Flask, and MongoDB for real-time volunteer coordination