SAKHEE DESAI

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EDUCATION & AWARDS

University of Delaware Honors, Newark, DE

M.S Computer Science   **December 2025**
- **Coursework:** Artificial Intelligence, Computer Vision, Cloud Computing, Computer Networks II, Logic II, Data Analytics with GenAI

B.S. Computer Science & Finance (Concentration: Artificial Intelligence| Minors: Economics, Entrepreneurship)   **May 2025**
- **Dean's List** All Semesters (GPA - 3.9/4.0), **UD Trustee Scholarship**, **Siegfried Entrepreneurial Leadership Award**
- **President of Gujarati Samaj of UD**, CS + Social Good Club, **Horn Entrepreneurship Ambassador,** Grace Hopper 2023
- **Coursework:** Machine Learning, Databases, Automata Theory, Linear Algebra, Algorithms, Intro to Software Engineering, Data Structures, Discrete Math, Data Mining, Corporate Finance I & II, Investments, Fundamentals of FinTech, Strategic Management

MOT Charter School, Middletown, DE   **May 2021**
- **Delaware Secretary Of Education Scholar** (GPA - 4.0)
- **Student Body President**, National Business Professionals of America Winner

WORK EXPERIENCE

J.P. Morgan Chase, Wilmington, DE

Software Engineer I   **July 2025 - Present**
- Built Databricks dashboards analyzing cloud spending, enabling senior leadership to optimize resource allocation across 10+ infrastructure and development teams.
- Designed and managed production-grade AWS infrastructure using Terraform, eliminating manual setup and ensuring consistency
- Developed Python and SQL data transformation pipelines processing large-scale data to support firmwide FP&A forecasting.

Software Engineering Intern   **July 2024 - August 2024**
- Created a custom AI-powered chatbot using OpenAI LLMs and Python, improving productivity for 50+ model reviewers.
- Led a major infrastructure refactor by consolidating 38 Dockerfiles into 6 reusable base images, cutting image build times by over 50% and significantly improving maintainability. Built and deployed containerized microservices with Kubernetes,

University of Delaware, Newark, DE   **February 2024 - December 2024**

Infrastructure Teaching Assistant
- Built Python and JavaScript automation tools to streamline onboarding and scheduling for 50+ teaching assistants

AmeriHealth Caritas, Newton Square, PA   **June 2023 - August 2023**

Enterprise Architecture Intern
- Built internal dashboards visualizing enterprise system integrations across cloud and on-prem environments, improving visibility into data flows and dependencies.
- Worked closely with engineers and business stakeholders to improve technical documentation and architectural clarity.

The Siegfried Group, Wilmington, DE   **November 2021 - May 2023**

Financial Planning and Analysis Intern
- Automated recurring financial reports using Python to bridge finance and engineering workflows, for data-driven decision-making.

PROJECTS

SignalHawk - Day Trading Software   **September 2025 - Present**
- A **real-time market monitoring system** that uses multiple **technical indicators and trading strategies** to identify high intraday moves and **suggest trades to users** via email alerts. Built with **Python and Polygon.io WebSocket API**.

BuyBot - Agentic AI   **July 2025 - Present**
- Developed a **multi-agent AI** algorithm that uses **GPT-4 with RAG** to continuously monitor stock market conditions, perform technical analysis using multiple data sources, **make intelligent limit buy recommendations**, and deliver real-time alerts.
- Architected a distributed FastAPI backend with WebSocket streaming and Pinecone Vector DB for high-throughput LLM inference.

SignalQ - ML Powered Gunshot Detection App   **September 2024 - May 2025**
- Built a r**eal-time sensor and audio classification app** in **Swift**, achieving 95% gunshot detection accuracy via a **CoreML model** trained on 2,000+ samples.
- Integrated **MongoDB Realm for persistent local storag**e and used **gRPC/Protobuf** to transmit detection events to remote servers.
- Developed efficient on-device processing for multi-sensor input, ensuring low-latency responses and system scalability.

Deloitte Case Competition - Blue Hen Bodega   **April 2024**
- Won **first place** by synthesizing business & technology to develop a web app that spearheaded digital strategy for a small business

HenHacks Hackathon - HAKSafety   **April 2023**
- Won first place for M&T Bank's Hack, out of 50 projects by developing an online panic button using **TypeScript, React, & Chakra**

ADDITIONAL SKILLS

- **Languages & Frameworks:** Python, SQL, JavaScript/TypeScript, Swift, React, Chakra UI, Java, C/C++, HTML/CSS, Tailwind CSS
- **Cloud & Data:** AWS Cloud Practitioner Certification, Databricks, Terraform, Git, Docker, Kubernetes, CoreML
- **Leadership & Service: Coding Girls:** Organized hackathons for K-12 students | **Girls Tech Together:** taught 10-week Scratch course
- **Bilingual:** Hindi (ILR Level 5), Gujarati (ILR Level 5), Spanish (ILR Level 2)