SAKHEE DESAI

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EDUCATION & AWARDS

University of Delaware Honors, Newark, DE

M.S Computer Science	**May 2026**
- **Coursework:** Artificial Intelligence, Computer Vision, Cloud Computing, Computer Networks II, Globalization, Conflict Resolution

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

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	**July 2025 - Present**
Software Engineering Intern	**June 2024 - August 2024**
- Developed a custom AI-powered chatbot using OpenAI LLMs and Python, streamlining daily operations for 50+ model reviewers.
- Designed and deployed containerized microservices using Kubernetes and Docker, accelerating deployment pipelines by 50%.
- Led migration from on-prem systems to AWS cloud, configuring secure S3 storage and optimizing resource provisioning.
- Refactored infrastructure by consolidating from 38 Dockerfiles to 6, improving maintainability and reducing image build times.

University of Delaware, Newark, DE	**February 2024 - December 2024**
Infrastructure Teaching Assistant
- Built Python and JavaScript automation tools to streamline onboarding and data analytics for 50+ teaching assistants.
- Enhanced system reliability by proactively testing and maintaining backend scripts used across multiple instructional platforms.

AmeriHealth Caritas, Newton Square, PA	**June 2023 - August 2023**
Information Solutions - Enterprise Architecture Summer Internship
- Designed scalable solution architecture diagrams and built an internal SharePoint portal to centralize tech lab documentation.
- Collaborated across IT and operations teams to document data flow and improve stakeholder visibility into enterprise systems.

The Siegfried Group, Wilmington, DE	**November 2021 - May 2023**
Financial Planning and Analysis Intern (Part Time)
- Automated repetitive monthly reporting tasks via scripting, enabling faster turnaround and increased forecasting accuracy.

PROJECTS & RESEARCH

Lufburrow & Company Inc. (LufCo) - SignalQ	**September 2024 - Present**
- Built a real-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 storage and used gRPC/Protobuf to transmit detection events to remote servers.
- Designed 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 and technology to develop a web app that spearheaded a digital strategy for the case

HenHacks Hackathon - MathBridge	**March 2024**
- Developed a Python-integrated React WebApp to enhance K-12 mathematical reasoning, improving UI/UX with Chakra UI.

J.P. Morgan Chase - Code for Good	**October 2023**
- Built a React + Next.js application to automate scheduling workflows for non-profit partners, streamlining event coordination.

DS-AI-Hackathon2023 - Mindset Miners	**July 2023**
- Applied NLP with BERT to cluster mental health app data from 25,000+ entries, enabling tailored app recommendations.

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**: Python, Java, Swift, JavaScript, TypeScript, SQL, C, C++, R, HTML, CSS
- **Frameworks**: React, Next.js, CoreML, Docker, Kubernetes, gRPC, Protobuf, Visio, Chakra UI, SharePoint
- **Cloud & Tools:** AWS Cloud Practitioner Certification, CoreML, MongoDB Realm, Oracle DB, Tableau, Figma, Canva, Visio
- **Service:**
  - **Coding Girls:** Taught cohorts of 30-35 students programming concepts in Scratch and held hackathons in three cities in Italy
  - **Project Stree:** Facilitated educational workshops for underprivileged women in India & handled offsite fundraising
  - **Girls Tech Together:** Led a 10-week course teaching 40 elementary school students introductory programming in Scratch
  - **Youth Environmental Summit:** Organized statewide environmental conference of 200+ high school students
- **Bilingual:** Hindi (ILR Level 5), Gujarati (ILR Level 5), Spanish (ILR Level 2)