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 Al-powered chatbot using OpenAl 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
 - o Girls Tech Together: Led a 10-week course teaching 40 elementary school students introductory programming in Scratch
 - o 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)