

Ansh Sharma

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Portfolio: <https://anshsharma100.github.io/-Anshportfolio.github.io/>

EDUCATION

University of Texas at Dallas

B.S. in Software Engineering

Richardson, TX

- **Expected Graduation:** May 2028
- **Relevant Coursework:** Programming Fundamentals, Intro to Engineering and Computer Science, Computer Science 1.

SKILLS

- **Programing languages:** Python, Java, C++, JavaScript (React), Html.
- **Tools:** PyTorch, TensorFlow, TorchVision, CUDA, NumPy, Pandas, VS Code, Visual Studio, Git, Microsoft Office, Google Workspace, OpenCV, Supabase, Sambanova, OpenRouter, and Tailwind.
- **Certification:** Pursuing UdeMy's Mastering Data Structures & Algorithms and Complete Web Development Course.

PROJECTS & TECHNICAL EXPERIENCE

HackUTD – CarlQ – Back-End Developer

November 2024

- Developed CarlQ, a **Swift**-based **iOS app** that processes Excel-based car data using the **SambaNova** API to generate AI-powered insights, offering users intelligent diagnostics and personalized recommendations.

Lifeboat AI – Full-Stack Developer

January 2025 – Present

- Built a full-stack web app integrating a Titanic survival prediction model using logistic regression and decision trees, with a **Flask** backend and **HTML/CSS** frontend for real-time, interactive results.

Curio – Developer

February 2025

- Built an **AI-driven healthcare web app** using **React.js**, **TypeScript**, and **SambaNova AI**, featuring a **hallucination-free chatbot** for accurate medical responses, **Supabase** for secure storage, and a **Figma-designed UI** for a seamless experience.
- Developed a **voice AI call feature** with **SambaNova Voice API** and **Twilio**, enabling automated symptom assessment calls that keep users on track and provide detailed AI-generated summaries via email, improving accessibility by **50%**.

HackAI – BreakPoint – Back-End Developer

April 2025

- Awarded "**Most Creative Project**" for Unshackle AI at **HackAI 2025**.
- Developed **BreakPoint**, an AI-driven mobile app using **React** and **Tailwind CSS** for a responsive, user-friendly interface, aimed at helping teens and young adults navigate toxic relationships through interactive WhatsApp-style scenarios.
- Integrated **OpenRouter API** to power AI-driven character interactions, enabling dynamic conversation outcomes based on user decisions, and provided real-time analysis on manipulation tactics and emotional responses.
- Developed the iOS app using **Swift**, integrated **Supabase** for secure **PostgreSQL** storage, and used **TypeScript** and **JavaScript** for backend logic to implement emotional tracking, journaling, and achievement-based progress tracking.

LEADERSHIP & CLUBS

AIMD Projects – Project Lead/ Full-Stack Developer

August 2024 – January 2025

- **1st Place Winner** at University of Texas at Dallas AIMD, for developing an innovative AI-driven healthcare solution.
- Developed **OPTIC-net**, an AI-powered web platform for early diabetic retinopathy detection, training a **TensorFlow deep learning model** on 10GB+ of medical imaging data, improving accuracy by **10-20%** over manual diagnosis.
- Designed and deployed a **full-stack web application**, integrating a **Flask backend** with an **HTML frontend**. Built a **scalable data pipeline** for real-time image preprocessing and AI inference, ensuring fast performance and seamless user experience

AIM Projects – Full-Stack Developer

February 2025- Present

- Built a real-time **computer vision** app using **DenseNet-161** and **OpenAI's CLIP** to detect user emotions and physical actions.
- Built **PyTorch**-based video pipelines using **Torchvision**, and **OpenCV** for smooth **real-time** frame analysis and feedback.
- Enhanced real-time multi-model integration for improved interaction in emotion, accessibility, and behavior analysis.

Student Council – Executive

May 2023–May 2024

- **Led school-wide events** like pep rallies, homecoming activities, and festivals, boosting school spirit and engagement.
- Managed fundraising campaigns, raising over **\$3,000** for the school and collecting supplies for donation to support causes.
- Collaborated with a team of **20+** throughout the school year, learning effective team management and cooperation skills.

ADDITIONAL EXPERIENCES

Sports: Participated in CCL Dallas Cricket League and Rockhill Badminton and cricket team, developing teamwork and strategic skills.

Cultural Engagement: HARIT non-profit member since 2021, supporting events and fundraisers for a 500+ member community.

Volunteer Work: Coordinated logistics of food distribution initiatives by organizing volunteer schedules and resources; directly contributed to serving more than 100 meals within one day while fostering teamwork among volunteers.

React Workshop: Built React site at UTD workshop, gaining experience with React, advanced CSS, and responsive design.