Ansh Sharma

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EDUCATION

University of Texas at Dallas — August 2024 – Present
B.S. in Software Engineering — Richardson, TX
- **Expected Graduation:** May 2027.
- **Relevant Coursework:** CS1436 (Programming Fundamentals), CS1200 (Intro to Engineering and Computer Science), CS1337 (Computer Science 1).

PROJECTS & TECHNICAL EXPERIENCE

AIMD (AI Medical) Projects — August 2024 – January 2025
Project Lead/ Full-Stack Developer — Richardson, TX
- **1st Place** Winner at University of Texas at Dallas AIMD, awarded a **cash prize**.
- Developed OPTIC-net, an AI-powered web platform for **early diabetic retinopathy detection**, training a deep learning model on **10GB+** of medical imaging data to improve diagnostic accuracy.
- Trained and fine-tuned the AI model using **TensorFlow** in **Python**, leveraging deep learning techniques and extensive datasets to improve recognition capabilities, enhancing detection accuracy by **10-20%** compared to manual doctor analysis.
- Built the website using **HTML** and integrated **Flask** for backend processing, gaining experience in web development and AI.
- Implemented a scalable data pipeline for image preprocessing and Ai inference, ensuring improved performance and speed.

Car IQ — November 2024 – Present
Developer — Richardson, TX
- Designed and built an iOS app, CarIQ, to process car data from text files and deliver user insights from AI-powered analytics.
- Developed and integrated the **Sambanova AI API** for backend processing, enabling AI-powered features and data analysis.
- Implemented an **AI-powered chatbot** to enhance user interaction, offering personalized recommendations and insights.
- Developed **RESTful APIs** with **Flask** to process car data, handling queries and returning insights to the **Swift-based iOS** app.
- Implemented **MySQL** for structured data storage, optimizing query retrieval and performance for large car datasets.

Lifeboat AI — January 2025 – Present
Developer — Frisco, TX
- Developed a **machine learning** model to predict Titanic passenger survival using logistic regression and decision trees.
- Preprocessed data, handled missing values, engineered features, and optimized the dataset, improving model performance.
- Developed a **full-stack** system using **Flask** (backend) and **HTML/CSS** (frontend), enabling real-time Titanic survival predictions in an **iOS** app

React Workshop, UTD — September 2024
Participant — Richardson, TX
- Built a dynamic **React** site, gaining hands-on front-end experience and strengthening my understanding of modern **JavaScript** frameworks like React, advanced CSS, and best practices for responsive, interactive, and scalable web design.

LEADERSHIP & CLUBS

Student Council — May 2023–May 2024
Executive — Prosper, TX
- **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.

National Technical Honor Society (NTHS) — August 2023–May 2024
Member — Prosper, TX
- **Excelled** in technical courses, collaborated on projects, and gained experience learning from **professionals** in engineering.

SKILLS

Programing languages: Python, Java, C++, JavaScript (React), Html.
Tools: Microsoft Office, Google Workspace, VS Code, VS and Git.
Certification: Working to be certified in Udemy's Mastering Data Structures & Algorithms and Complete web development course.

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.S