Sarang Mistry

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EDUCATION

The University of Houston, Houston, TX
- B.S. in Computer Science, **GPA: 4.0/4.0**   Expected Graduation: **December 2024**
- Courses*:* Data Science 2, Introduction to AI, Medical Image Processing, Operating System, and Software Design

EXPERIENCE

Software Developer Fellow*,* Headstarter AI Fellowship, Remote   July 2024 – Present
- Built **5 + AI apps** and APIs using NextJS, Open AI, Pinecone, Stripe API as seen by 1000 users.
- Developed projects from design to deployment leading 4+ engineering fellows using MVC design patterns.
- Coached by Amazon, Bloomberg, and Capital One engineers on Agile, CI/CD, Git and microservice patterns.

Tutor*,* University of Houston, Houston, TX   August 2023 – Present
- Trained and mentored over **200+** undergraduate students monthly in **Python** and **C++** programming, fostering a deep understanding of core concepts such as data structures, algorithms, and object-oriented design.
- Facilitated hands-on coding sessions, guiding students through complex problem-solving exercises, and enhancing their skills in designing, testing, and debugging.

PROJECTS

Contribu*,* https://www.contribu.dev   August 2024 – Present
- Designed and implemented Contribu, an innovative platform that connects students to collaborate on projects and bring ideas to life.
- Utilized technologies such as Next.js, ShadCN, Tailwind CSS, Supabase, and Resend Email to build a scalable and responsive web application capable of handling **1,000+** concurrent users.
- Focused on creating an intuitive user experience that encourages seamless collaboration and idea-sharing among students. Committed to fostering a culture of innovation and inclusivity, ensuring that the platform meets the needs of its diverse user base.

CardGen AI*,* https://card-genai.vercel.app   August 2024
- Developed a web application for creating flashcards through various methods: manual entry, text generation, PDF uploads using OpenAI, and YouTube links.
- Implemented a tiered subscription model with Stripe for payment processing.
- Built the application using TypeScript for robust and scalable code, while employing Firebase for secure authentication and efficient database management, and designing a modern, responsive UI with ShadCN.

UniMatch*,* https://unimat-ch.vercel.app/   August 2024
- Developed **a Retrieval Augmented Generation (RAG)** chat application that delivers comprehensive insights about universities through user interactions
- Implemented Web Scraping using Beautiful Soup and Requests in Python to extract data, which was then embedded using OpenAI embeddings and stored in Pinecone vector database for semantic search, enabling retrieval of relevant data based on user queries.

Sweat AI*,* https://sweat-ai.vercel.app   August 2024
- Designed and developed a web application with **3 AI-powered personal assistants** using the OpenAI (LLM): a Personal Trainer, a Personal Nutritionist, and a Personal Sports Coach.
- Built the frontend using Next JS for server-side rendering and ShadCN components for a modern, responsive UI.
- Implemented authentication and data management with Supabase, providing secure user login and seamless database interactions.

TECHNICAL SKILLS

- **Programming Languages:** C++, Python, JavaScript, TypeScript, HTML, CSS
- **Framework / Libraries:** ReactJS, NextJS, Prisma, TensorFlow, NumPy, Pandas, Matplotlib
- **Database:** Firebase, Supabase, PostgreSQL, MySQL, Pinecone (VDB)

HONORS

- Dean's List: **8 out of 8 Semesters**.
- Undergraduate Scholarships: Fall 2024, Fall 2020, and Spring 2021 - Nuclear Regulatory Commission (NRC).