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, Data Structure Algorithms, Operating System, and Software Design.

TECHNICAL SKILLS

- *Programming Languages:* C++, Python, JavaScript, HTML, CSS, Git, and TypeScript
- *Framework/Libraries:* React JS, Next JS, Prisma, TensorFlow, NumPy, Pandas and Matplotlib
- *DBMS:* Firebase, Supabase, PostgreSQL, and MySQL

PROJECTS

CardGen AI   August 2024 – Present
- 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.

Sweat AI / https://sweat-ai.vercel.app   August 2024
- Designed and developed a web application with three AI-powered personal assistants using the OpenAI API: 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.

Fuel Quote Application   January 2024 – May 2024
- Designed and developed a web application to predict fuel rates based on various criteria.
- Implemented frontend with Next.js, TypeScript, and Tailwind CSS for efficient and responsive design.
- Implemented user authentication, allowing login and signup functionality using NextAuth.js. Developed a dashboard displaying user profile information, Fuel Form, and Quotation History.
- Developed and maintained robust backend APIs using Node JS and Express JS, integrating session management with express-session and Prisma ORM for secure and efficient user authentication, profile management, and database interactions. Utilized Prisma with Vercel Postgres, eliminating manual SQL queries by defining schema using Prisma schema files.

EXPERIENCE

Headstarter AI | Fellowship   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
- Instructed undergraduate students in Python and C++ programming, covering fundamental principles, hardware/software components, and computational thinking.
- Led hands-on programming exercises to enhance students' problem-solving skills and proficiency in designing, testing, and debugging code.

HONORS

- Dean's List: 8 out of 8 Semester.
- Undergraduate Scholarship: Fall2024, Fall 2020, and Spring 2021.

ACTIVITES

Course Lead | Cougar CS   August 2023 – February 2024
- Oversaw tutoring alignment with course materials, supported tutors, facilitated effective communication, and developed resources, including programming assignments.