

Shravan Asati

Ahmedabad, Gujarat

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I'm a **1st-year B.Tech. student** specializing in **CSE** and interested in data science and web development. I'm currently studying react and nextjs and gaining hands on experience in deploying websites.

Education

B.Tech. CSE

Adani University

Specialization: AI-ML

CGPA: 9.2

Last Semester SGPA: 9.36

Ahmedabad, India

July 2023 - Present

12th Grade

VSG International School

Board: CBSE

Stream: Science (PCM + Informatics Practices)

Percentage: 91.6%

Navsari, India

June 2021 - March 2023

10th Grade

VSG International School

Board: CBSE

Percentage: 94.8%

Navsari, India

March 2020 - Apr 2021

Skills

- **Languages and Frameworks:** Python, Go, React, TypeScript, JavaScript, Flask, SQL, C++, Bash
- **Tools and Technologies:** Git, GitHub, Linux, Docker, CI/CD Pipelines

Projects

animeviz 🌐 📺

- Engineered a dynamic web application for visualizing MyAnimeList user data, leveraging the **MyAnimeList API** for OAuth2 authentication and anime search functionality
- Implemented robust security measures using **Cloudflare Turnstile** for CAPTCHA protection
- Utilized **pandas**, **matplotlib** and **plotly** libraries to generate insightful data visualizations and analytics
- Developed a responsive frontend using **PicoCSS** and **Vanilla JavaScript** for enhanced user experience
- Designed and implemented a scalable backend architecture with **Python Flask**, integrating **MySQL** for efficient data management and retrieval

squirrel 🌐 📺

- Developed "Squirrel," an innovative **AI-powered SQL** query builder and executor with schema-aware capabilities
- Implemented automatic DDL command generation for database schema analysis, enhancing the **LLM's** contextual understanding
- Integrated **Ollama** to locally deploy and run the sqlcoder LLM, optimizing performance and data privacy
- Designed an intuitive frontend using HTML, CSS with **DaisyUI** component library, and Vanilla JavaScript for a seamless user interface

- Engineered "emozi," a versatile emojipasta generator with both web and terminal interfaces
- Developed a core emojipasta library in **Go**, demonstrating problem solving skills
- Crafted a responsive web application using **React**, **TypeScript**, and **TailwindCSS**, showcasing modern frontend development expertise
- Utilized **Docker** for containerization, implementing multi-stage builds and optimized cache layering to achieve rapid deployment and minimal image size

titan-url

- Developed "Titan URL," a streamlined URL shortening service with an exposed public API for enhanced accessibility
- Engineered a command-line interface client in **NodeJS** to showcase API functionality and improve user interaction
- Implemented a robust backend architecture with **Python Flask**, coupled with **PostgreSQL** for efficient data management and scalability

iris

- Developed "iris," a versatile and cross-platform wallpaper management solution implemented in **Go**
- Engineered a feature-rich application capable of sourcing wallpapers from diverse platforms including GitHub, Reddit, Windows Spotlight, and Unsplash
- Implemented functionality for local wallpaper folder integration, enhancing user flexibility and customization options
- Designed an automated wallpaper rotation system, allowing users to configure periodic changes based on preferences
- Incorporated advanced capabilities such as video wallpaper support, demonstrating technical proficiency in multimedia integration

PyScreenRec

- Developed PyScreenRec, a lightweight, cross-platform screen recording library in **Python**, demonstrating proficiency in creating reusable software components
- Designed and implemented an intuitive API for seamless control of recording functions, including start, pause, resume, and stop capabilities
- Leveraged **OpenCV** for efficient video compilation, showcasing ability to integrate complex third-party libraries
- Achieved over **17,000 downloads** on PyPI, indicating strong adoption and real-world impact within the developer community

Coursework

Computer Science

Computer Programming. Ongoing courses: Data Structures, Frontend Web Development, Python Programming

Engineering Sciences

Maths I, Basic Electronics, Basic Electrical Engineering. Ongoing courses: Maths II, Applied Physics

Humanities and social sciences

Professional Communication, Environmental Science. Ongoing course: Human Values