Shravan Asati

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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 — *Ahmedabad, India*

Adani University — *July 2023 - Present*

Specialization: AI-ML
CGPA: 9.05
Last Semester SGPA: 9.05

12th Grade — *Navsari, India*

VSG International School — *June 2021 - March 2023*

Board: CBSE
Stream: Science (PCM + Informatics Practices)
Percentage: 91.6%

10th Grade — *Navsari, India*

VSG International School — *March 2020 - Apr 2021*

Board: CBSE
Percentage: 94.8%

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

A website that draws insightful visualizations over users' MyAnimeList data. I implemented the OAuth2 authentication and anime search using the **MyAnimeList API**, used **Cloudflare Turnstile** for the captcha, and **pandas** and **matplotlib** for generating various charts. The frontend uses **PicoCSS** and **Vanilla JS** and backend uses the **Python Flask** library, along with **MySQL** as the database.

squirrel

squirrel is an **AI SQL** query builder and executor. It is database schema-aware since it automatically generates the DDL commands for the database and provides it to the **LLM** for analysis. We used the **Ollama** tool to locally run the sqlcoder LLM. The frontend is written in HTML, CSS (with the DaisyUI component library) and vanilla JavaScript, while the backend is written in Python with the Flask library.

emozi

emozi is a emojipasta generator for the web, as well as for the terminal. I wrote the emojipasta library in Go myself, which powers both of these applications. The website is written in **React** with **TypeScript** and **TailwindCSS**, all hosted by a **Go** server and containerized with **Docker**, utilising multi-stage builds and efficient use of cache layering for quick and small image size.

titan-url

Titan URL is a no-fuss URL shortener. I've also exposed a public API that can be used to shorten URLs. To demonstrate the API usage, I created a terminal client for it in **NodeJS**. I also implemented **Vercel Site Analytics** to access real-time insights about the website. The frontend uses **TailwindCSS** and **Vanilla JS** and backend uses the **Python Flask** library, along with **Postgres** as the database.

iris

iris is an easy-to-use, cross-platform, and extremely customizable wallpaper manager. It's written in **Go** and is feature-rich; it can set remote wallpapers from GitHub, Reddit, Windows Spotlight service, and Unsplash. You can

use your local wallpapers folder too. You can configure it to change wallpapers periodically. You can set video wallpapers too.

atomic
atomic is a command-line benchmarking tool in **Go**, that offers an array of advanced features like arbitrary command support, intermediate shell execution, statistical outlier detection, benchmark summary export in various formats, command timeouts and built-in plotting support.

stella
Stella is a **Python** CLI tool that aims to streamline the web dev experience by providing automatic server restarts, browser page reloads on file changes, and several other QOL features like gitignore file obedience and npm-scripts like interface. It has over **8k downloads** on PyPI.

PyScreenRec
PyScreenRec is a small and cross-platform **Python** library for recording screen. It provides an easy-to-use API to start, pause, resume, and stop recording. It uses **OpenCV** underneath to compile the video. It has over **14k downloads** on PyPI.

crusade
Crusade is a friendly math interpreter written in **C++**. It employs a slightly modified version of the **Shunting-Yard algorithm** to understand and evaluate the given expressions. I built it as the project for the Data Structures course.

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

Extracurricular

I enjoy playing badminton, watching anime, and video editing. I am also an active member of ASPDC (Adani Student Programming and Development Club).