Shravan Asati

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Education

Adani University *July 2023 – Present*
B.Tech. in Computer Science and Engineering

- CGPA: 9.2/10
- **Coursework:** Database Management Systems, Algorithm Design and Analysis

Technologies

Languages and Frameworks: Python, Go, Next.js, React, TypeScript, JavaScript, Flask, SQL, C++, Bash

Tools: Git, GitHub, Linux, Docker, CI/CD Pipelines

Projects

everynyan

- **Developed** an exclusive anonymous social media platform for Adani University students (200+ users), featuring post creation, commenting, upvoting/downvoting, and content reporting to maintain community standards
- **Built** the frontend using **Next.js** for a seamless user experience and implemented backend services with **Firestore** as the primary database for high scalability.
- **Integrated** various APIs including **Cloudflare Turnstile** for CAPTCHA verification, **Tenor** for GIF sharing, and **Resend** for email notifications.
- **Engineered** a robust notifications service in **Go**, delivering real-time updates through **WebSockets** and **push notifications**, leveraging **BoltDB** for storing subscription data.
- **Designed** an admin panel to resolve reported content and efficiently broadcast notifications to all users, enhancing platform management capabilities.

animeviz

- Engineered a dynamic web application for visualizing MyAnimeList user data, leveraging the **MyAnimeList API** for OAuth2 authentication and anime search functionality
- 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

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 **38,000 downloads** on PyPI, indicating strong adoption and real-world impact within the developer community

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