Shravan Asati

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Education

Adani University   *July 2023 – July 2027*
B.Tech. in Computer Science and Engineering

- CGPA: 9.3/10
- **Coursework:** Database Management Systems, Operating Systens, Data Structures and Algorithms, Object-Oriented Programming, Computer Networks, Machine Learning, Distributed Computing, Cybersecurity

Experience

Software Engineer Intern   *Remote*
Toucan Labs   *June 2025 – Aug 2025*

- Architected and deployed a full-stack, enterprise-grade observability platform using Grafana Cloud, leveraging OpenTelemetry standards to provide unified logging (Loki), metrics (Prometheus/Mimir), and Application Performance Monitoring (APM) with distributed tracing (Tempo).
- Designed and implemented a centralized notifications system, including an in-app notification center, Firebase push notifications, and an admin announcement panel, delivering real-time updates to 100+ active users with 97%+ delivery success.
- Deployed and managed the full production stack (frontend, backend, MongoDB) on a VPS using Dokploy, with rolling blue-green deployments and a GitHub Actions CI/CD pipeline, enabling fully-automated zero-downtime releases

Skills

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

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

Projects

reverie   🌐 ↗

- Built a 3-microservice AI journaling prototype (Next.js on Vercel; FastAPI NLP; Spring Boot backend) and authored Dockerfiles for automated Azure Container Apps deployments.
- Implemented a conversational RAG pipeline: NLU → pgvector SQL+embedding retrieval → knee-detection filtering → LLM response generation.
- Served actionable suggestions via GPT-OSS (Cloudflare Workers) and self-hosted sentiment/emotion models using Hugging Face; integrated pgvector for semantic search.
- Engineered backend flows for reflection prompts, mood/emotion analytics, and the "chat with journals" feature with scalable retrieval and prompt engineering.

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
- Achieved over **93,000 downloads** on PyPI, indicating strong adoption and real-world impact within the developer community

Positions of Responsibility

Vice President, Adani Student Programming and Development Club

- Organized technical events such as hackathons, coding challenges, and workshops, impacting over 200 students.

Achievements

Winner, Techathon 2025

- Awarded first place for building a website focused on road safety and accident prevention, incorporating weather-based insights and community-driven incidents.