Shravan Asati

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 shravanasati

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, Java, Flask, SQL, C++, Bash

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

Projects

reverie   🌐 ↗ ▶ ↗

- Built an AI-powered journaling platform that provides actionable insights and tracks mental and emotional well-being using Next.js.
- Implemented a conversational RAG pipeline: NLU -> pgvector SQL+embedding retrieval -> knee-detection filtering -> LLM response generation.
- Developed a Python/FastAPI microservice to serve actionable suggestions and reflection prompts via GPT-OSS and vector embeddings via bge-m3 (Cloudflare Workers) and self-hosted sentiment/emotion models using Hugging Face.
- Engineered core backend flows for journal operations, analytics, and the "chat with journals" feature with scalable retrieval and prompt engineering using Spring Boot and Java.

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 **102,000 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.