

# Shravan Asati

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## Education

### Adani University

B.Tech. in Computer Science and Engineering

July 2023 – July 2027

- CGPA: 9.3/10

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

## Experience

### Software Engineer Intern

Toucan Labs

Remote

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 with 98%+ 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 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.

### shadowfax



- Built a minimal HTTP/1.1 server from scratch in Go over raw TCP — implemented request parsing, routing, chunked encoding, persistent connections, middleware, panic recovery, graceful shutdown, and concurrent request handling.
- Developed middleware for CORS, CSRF protection, static file serving, basic authentication, and request logging.
- Ensured robustness through unit/integration tests, request fuzzing, and wrk benchmarks (**1.4k req/s**) under resource-constrained conditions.

### 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 **128,000 downloads** on PyPI, reflecting strong adoption and real-world impact.

## Leadership and Achievements

### Vice President, Adani Student Programming and Development Club

Aug 2024 – July 2025

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

### Winner, Techathon 2025

Jan 2025

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