

Tanish Poddar

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Summary

Shipped an open-source observability SDK to PyPI and a production employee management system for the Government of India. Full Stack + AI Engineer who takes projects from zero to deployed products with real users — across backend APIs, real-time systems, and applied LLM integration. AWS Student Builder Group Leader at SRMIST.

Skills

Languages: Python, TypeScript, JavaScript, SQL

Frontend: Next.js, React, Tailwind CSS

Backend: Node.js, Express, FastAPI, Django REST Framework, Flask, REST APIs

Databases: PostgreSQL, TimescaleDB, MySQL, Redis, Supabase, Firebase

AI / LLM: Claude API, Groq, Prompt Engineering, OpenCV, MediaPipe

Infra / Tools: Docker, CI/CD (GitHub Actions), BullMQ, GitHub Apps & Webhooks, Git, Linux, AWS, Vercel, Railway

Experience

AWS Student Builder Group Leader — SRMIST

Nov 2025 – Nov 2026

- Selected by AWS to found and lead the campus AWS Student Builder Group, growing it to an active community running weekly technical sessions.
- Organised 10+ hands-on cloud labs, certification prep sessions, and live deployment demos with AWS community speakers.

Software Development Intern — National Informatics Centre (NIC), Govt. of India

Dec 2025 – Jan 2026

- Built a production employee management system for India's Ministry of Social Justice & Empowerment, digitising records for 500+ employees.
- Designed 15+ REST API endpoints with input validation, pagination, and role-based access control across 3 permission tiers.
- Implemented secure JWT authentication flows, delivered on-time under government operational and security constraints.

SDE Intern — DeskOS (Remote)

Aug 2025 – Sep 2025

- Engineered a WhatsApp-based visitor notification system with Django REST Framework, cutting manual approval time from 4–6 minutes to under 30 seconds (90%+ reduction).
- Built an event-driven pipeline sustaining 2,000+ messages/day at ~98% delivery reliability across arrival, invite, and kiosk events.

Next.js Developer — LinksUs (Remote)

Jul 2025 – Sep 2025

- Refactored frontend architecture and state management, improving dashboard responsiveness by 35–40%.
- Cut render times up to 50% through reusable component patterns, accelerating subsequent feature delivery.

Frontend Developer — Sintora Ventures (Remote, Part-time)

Dec 2025 – Feb 2026

- Built responsive frontend pages for internal systems with full loading, error, and edge-case state handling.
- Integrated REST APIs and kept frontend logic aligned with evolving backend contracts across 5+ screens.

Volunteering

Web Developer Volunteer — Concern Rehab (NGO)

Jun 2025 – Present

- Designed and built the complete official website for Concern Rehab, an NGO focused on addiction treatment and rehabilitation, live at concernrehab.com.
- Independently owned the site end-to-end — frontend, deployment, and ongoing maintenance — serving as the organisation's primary information hub for patients, families, and the community.

Projects

reqly — Self-Hostable API Observability SDK

[Live](#) | [GitHub](#)

Python, FastAPI, TimescaleDB, Docker, Groq, TypeScript

- Published open-source SDK to PyPI (`pip install reqly`) — instruments any FastAPI/Flask app in 2 lines with zero config.
- Engineered a fail-open SDK (3 independent catch layers) and non-blocking daemon-thread shipping with strict timeouts, guaranteeing the SDK never crashes or slows the host app.
- Bounded telemetry cardinality using route templates (not raw paths) and capped the in-memory queue at 2,000 events to prevent unbounded memory growth.
- Ran z-score anomaly detection before the LLM, passing only structured findings to Groq so raw telemetry never leaves the collector.

DevPulse — AI Developer Productivity Dashboard

[Live](#) | [GitHub](#)

Next.js, TypeScript, Prisma, Postgres, Groq, GitHub API

- Fetches commits, PRs, and issues via GitHub GraphQL API (batch queries, cursor pagination) to auto-generate AI standup reports and weekly summaries from structured data.

- Built a deterministic, fully auditable burnout score over a 14-day commit-pattern window, normalised against each user’s own 60-day baseline — no AI in the number itself.
- Secured GitHub access tokens with AES-256-GCM encryption before storage, nullifying the plaintext copy post-OAuth.

InterviewOS — AI Mock Interview Platform

[Live](#) | [GitHub](#)

Next.js, TypeScript, Supabase, Clerk Auth, Groq, Web Speech API

- Built a voice/text mock-interview tool scoring answers 1–10 across correctness, clarity, and edge-case handling, with results streamed live via Supabase Realtime.
- Handled a dual-path race condition (HTTP response vs. Realtime event) with a first-arrival guard, preventing double state updates.
- Hardened the evaluation endpoint against prompt injection using XML tag delimiters and explicit system-prompt directives.

DiffHawk — Automated GitHub PR Review Bot

[Live](#) | [GitHub](#)

Node.js, TypeScript, BullMQ, Redis, Octokit, Claude API

- Built a GitHub App that auto-reviews every PR within ~30 seconds — inline comments for bugs, security, and style issues ranked by severity, plus an email summary.
- Verified webhooks with HMAC-SHA256 (`timingSafeEqual`) and enforced an idempotency-key job ID to eliminate duplicate reviews on redelivery, acking in under 2 seconds.
- Deployed live across 3 repos, auto-reviewing every PR made during their development.

PosturePro — Real-Time Posture Detection

[Live](#) | [GitHub](#) | 12 ★ / 6 forks

Python, MediaPipe, OpenCV, JavaScript

- Detected neck/torso angles from live webcam using MediaPipe Pose, alerting after 3 minutes of sustained poor posture with optimised low-latency frame processing.

Education

SRM Institute of Science and Technology, Kattankulathur

2023 – 2027

B.Tech in Computer Science Engineering

Relevant Coursework: Data Structures, Algorithms, DBMS, Operating Systems

Certifications

SAP Certified — Backend Developer, ABAP Cloud (SAP, 2026)

[Credential](#)

Accelerated CS Fundamentals — UIUC (2024)

[Credential](#)

AWS Academy Cloud Foundations (AWS, 2023)

[Credential](#)

Languages

English (Professional)

Hindi (Native)