

Tanmay Patel

+91 83065 78484 | tptanmaypatel9@gmail.com | [linkedin.com/in/tanmaypatel3](https://www.linkedin.com/in/tanmaypatel3) | github.com/t-maypat

PROFILE

Software engineer building distributed, fault-tolerant backends in **Python** and **Go** on **AWS**, **Kubernetes** and **Kafka**.

EXPERIENCE

Software Engineer – Spinny

Sep 2026 – Present

Full-time, Onsite

Gurugram, HR

- Implemented **escrow payments** for traffic fines, holding funds until the challan resolves, then releasing or refunding, via a payment state machine with **idempotent webhooks** and gateway reconciliation.
- Built a **Kafka** event pipeline correlating third-party callbacks to **8.5K+ records** with idempotent consumers and reconciliation for missing events; lifted workflow success from **37% to 68%**.
- Debugged an outage where a **9× traffic spike** made KEDA scale **Kubernetes** pods **3 → 15**, exhausting RDS connections and crashing **2 services**; shipped transaction-mode pooling and per-pod connection budgets.
- Optimized **14+ PostgreSQL/MySQL query patterns** on tables exceeding **19M rows** using composite indexes, query rewrites and N+1 elimination, reducing execution time by up to **99.7%**.

Software Engineer Intern – Spinny

Jun 2026 – Aug 2026

Onsite, converted to full-time

Gurugram, HR

- Built consumer (**FastAPI**) and back-office (**Django/DRF**) services on Kafka and AWS, shipped via **Argo CD**.
- Owned **court challans end to end** (data model, state machine, APIs), earning **Rs. 6.9L** in month one.
- Built an **LLM** offence-classification pipeline (Python, Celery, PostgreSQL) with SHA-256 content-hash caching to exploit **100× input reuse**, plus versioned prompts and deterministic inference for reproducible outputs.

Full Stack Software Engineer Intern (AI/ML) – Airbus

Feb 2026 – Jun 2026

Onsite

Bengaluru, KA

- Built a **full-stack spec-management system** (React, TypeScript, AWS) in a migration saving **~EUR 700K**.
- Enabled decommissioning of the legacy CCDD by refactoring dependencies, moving auth from static-key JWT verification to **JWKS-based key rotation**, and updating AWS Lambda, SSM and Secrets Manager.
- Kept deployments stable with Jest suites (**86% coverage**) and Liquibase-validated migrations in Jenkins CI/CD.

PROJECTS

gosentry | *Go, Docker, Kubernetes, S3 (MinIO), Claude API*

[GitHub](#)

- Built a **backup engine in Go** with **content-defined chunking** and **deduplication**, storing each unique chunk once on disk or **S3-compatible storage**; restores verify every chunk's hash.
- Added **ransomware detection** that diffs consecutive backups (encryption, mass renames, ransom notes) to find the last clean one, and a **read-only Claude assistant** that proposes restores for human approval; a simulated attack on **40% of files** scored **100/100** with a fully matching restore.
- Ran backups in parallel across cores and **Kubernetes pods lock-free**, as identical data maps to the same storage key; hit **1.3 GB/s** chunking + hashing on 4 cores and **~3 s** re-backups of an unchanged 1 GB folder.

TECHNICAL SKILLS

Languages: Go, Python, TypeScript, JavaScript, SQL, C++ | **Frontend:** React, Next.js

Backend & Distributed Systems: FastAPI, Django, DRF, Node.js, hapi.js, Express.js, Kafka, Celery, Redis

Cloud & Storage: AWS (RDS, Lambda, S3, SSM, Secrets Manager), S3/MinIO, PostgreSQL, MySQL, MongoDB

Containers & DevOps: Docker, Kubernetes, KEDA, Argo CD, Jenkins, Grafana, Sentry, Linux

Concepts: Distributed Systems, Microservices, Backup & Recovery, Deduplication, Fault Tolerance, CI/CD

EDUCATION

VIT Vellore

Vellore, TN

Bachelor of Technology in Computer Science and Engineering

Sep 2022 – Apr 2026

ACHIEVEMENTS & CERTIFICATIONS

- LeetCode: Knight (1861 rating)**, **Top 6.51% Global**, 500+ DSA problems solved.
- Ericsson EdgeAcademia:** Ranked **Top 500** among **16,000+** participants across **8 Asian countries**.
- Oracle Cloud Infrastructure 2025 Certified Generative AI Professional** (Oct 2025) [[View Certificate](#)]
- Microsoft Certified: Azure Fundamentals (AZ-900)** [[View Certificate](#)]