

ANOOP SHETTY

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EDUCATION

Thadomal Shahani Engineering College

Aug 2023 – Jun 2027

B.E. Information Technology GPA: 8.52/10

Mumbai, Maharashtra

- Relevant Coursework: Data Structures & Algorithms, Operating Systems, Computer Networks, DBMS

EXPERIENCE

Google Summer of Code 2026 – Open Genome Informatics (Courtot Lab, OICR)

May 2026 – Present

Open Source Developer

Remote

- Selected globally (~5% acceptance) to design and build a **distributed, real-time AI surveillance system** monitoring 4 social platforms (TikTok, YouTube, Instagram, Reddit) for pediatric ENT health misinformation trends.
- Architecting a **concurrent, multi-platform ingestion pipeline** consuming 5 social media APIs in parallel, with an NLP/LLM classification layer surfacing a 3-class **HARMFUL / CONCERNING / SAFE** risk taxonomy; extending a single-platform prototype to production scale.
- Building a **clinical reporting dashboard** with real-time trend and engagement metrics, to be evaluated for precision, recall, and clinical reliability with pediatric Otolaryngologists at OICR / University of Toronto.

Unstitched Studios

Dec 2025 – Mar 2026

Software Engineering Intern

Mumbai, Maharashtra

- Co-shipped **theoneclickdesigner.com** to production on AWS in a team of 3 – scaled backend APIs and cloud infrastructure to serve **5,000+ users**; owned majority of frontend, backend system design, and cross-device compatibility.
- Architected a **generative AI prompt layer** translating template metadata and user inputs into diffusion-model assets, reducing design iteration time by **50%**; profiled and debugged React.js render paths, cutting mobile UI latency by **30–40%**.

PROJECTS

ShadowMap [\[video\]](#) [\[Github\]](#) | Python, PyTorch, FastAPI, Next.js, Supabase, Chrome Extension (MV3)

- Engineered a **real-time content governance system** via **Chrome Extension (MV3)** intercepting risky prompts across **3 LLM platforms** (ChatGPT, Claude, Grok) before submission – running end-to-end **CharCNN** inference entirely in-browser with zero server round-trips, eliminating network latency.
- Built a **FastAPI risk-scoring backend** with Supabase persistence and an asynchronous, **SSE-based** live audit dashboard in Next.js featuring department-level heatmaps and explainable risk monitoring (**XAI**) for concurrent session tracking.

VerifyX [\[video\]](#) | Python, FastAPI, Next.js, Qdrant, Elasticsearch, Groq, DeBERTa, Supabase

- Designed a **scalable hybrid retrieval architecture** over **Qdrant** dense embeddings and **serverless Elasticsearch** – dual-stack chosen over single-store Pinecone to preserve keyword-exact regulatory clause matching alongside semantic search at scale.
- Built a **DeBERTa NLI re-ranking** and 3-tier trust-gating engine (Safe / Needs Human Review / Non-Compliant) with entailment-based hallucination detection, grounding compliance verdicts to exact RBI source clauses with claim-level attribution.

Habitat [\[video\]](#) | Python, FastAPI, Scikit-learn, Sentinel-2, Prithvi, Supabase, Next.js

- Architected a **FastAPI** backend and **Next.js** frontend serving a geospatial **ML** pipeline end-to-end – trained a **Random Forest** on **Sentinel-2** imagery and **Prithvi** embeddings, achieving **92%+** accuracy across 37+ geo-coordinates.
- Built a **3-week drought forecasting module** with species-site recommendation using survival probability thresholds, delivering soil-fit and drought-risk analysis in under **12–15 seconds** from user input.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, C++ , SQL

Systems | Design: Distributed Systems, Concurrency, Microservices, System Design, REST APIs

Web | Backend: FastAPI, Next.js, React.js, Node.js, Express.js, SSE

AI | ML: PyTorch, Scikit-learn, LangChain, LangGraph, RAG, Multi-Agent Pipelines, Vector Databases

Cloud | Infra: AWS (S3, DynamoDB), Docker, Supabase, Vercel, Chrome Extension (MV3)

Databases: PostgreSQL, MongoDB, MySQL, Qdrant, Elasticsearch

Tools: Git, Postman, Streamlit

ACHIEVEMENTS

Google Summer of Code '26 – Selected globally (~5% acceptance) by Open Genome Informatics / Courtot Lab, OICR, University of Toronto.

Finalist, Quantathon '26 – IIT Madras Shaastra '26 quantitative challenge; top finisher among 100+ participants.

Codeforces Pupil – Max rating 1297; consistent problem-solver across data structures and algorithms.