

ANSHUL PATIL

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EDUCATION

Indian Institute of Information Technology, Surat
B.Tech

Jun 2024 - May 2028
Surat, Gujarat

RELEVANT COURSEWORK

Data Structures, Algorithms, Object-Oriented Programming and Design, C/C++, Java, Database Management Systems, Operating Systems, Computer Networks, Software Engineering, Distributed Systems, System Design

EXPERIENCE

Google Summer of Code 2026, BRL-CAD

2026

Selected Contributor, Manifold Subproject

Remote

- Selected to strengthen BRL-CAD's Manifold C++ geometry library by improving CI reliability, deterministic geometry checks, benchmark tracking, and reproducible validation across supported platforms.
- Automated cross-platform determinism checks using fixed mesh cases, canonical artifacts, SHA256 comparison, and mismatch reports to isolate geometry regressions faster during development.
- Planned Linux Clang ASan+UBSan testing and PR-level benchmarks with base-vs-head comparison, JSON history, and dashboard-ready trend visualization for long-term performance monitoring.

Extralit Open Source

Dec 2025 - Present

Open Source Contributor, AI Systems

Remote

- Contributed to an AI document intelligence platform supporting OCR parsing, dataset workflows, structured extraction, annotation pipelines, validation logic, and frontend review interfaces. Merged 10+ pull requests
- Resolved multi-step workflow persistence issues and shipped structured table-based dataset inputs with validation, state handling, UI integration, and tests for more reliable data preparation.

Bluestock Fintech

Dec 2025 - Feb 2026

Software Engineer Intern

Remote

- Improved dashboard reliability by debugging API-state issues, handling loading and error states, validating financial data rendering, and testing multiple user flows before feature delivery.
- Collaborated with engineers through code reviews, debugging, and iterative feature updates to refine frontend behavior, clean component structure, and deliver production-ready stock dashboard features.

Techvisio Design

May 2025 - Aug 2025

Software Developer Intern

Thane, India

- Engineered a full-stack analytics dashboard using React, Django REST Framework, and SQL APIs to process **10K+** daily user events across operational reporting workflows.
- Integrated AWS S3 data pipelines for **300K+** monthly records and reduced backend API latency by 40 percent through SQL query tuning, response caching, and endpoint optimization.

PROJECTS

AI Pull Request Reviewer | [Live Link](#) | *Python, FastAPI, GitHub API, LLM APIs, REST APIs*

2025

- Created an AI developer tool that reviews pull requests using repository metadata, code diffs, and contextual file analysis.
- Implemented FastAPI services for diff parsing, repository inspection, prompt construction, model fallback, and automated review.
- Connected GitHub webhooks to trigger PR analysis on new commits, reducing manual review effort and improving feedback.

ACHIEVEMENTS

- **Google Summer of Code 2026:** Selected contributor for BRL-CAD Manifold open-source subproject.
- **LeetCode:** **450+** problems solved across DSA, graphs, and dynamic programming. [Profile](#).
- **Winner, Agentic AI Strategy Hackathon** for designing a multi-agent automation system with workflow orchestration.
- **3rd Place, Speed Coding** at IIIT Surat among **100+** participants.

TECHNICAL SKILLS

Languages: Python, C++, Golang, SQL, Bash, JavaScript

Backend: FastAPI, Django REST Framework, REST APIs, Microservices, API Design, Authentication, Caching

Databases/Queues: PostgreSQL, Redis, Celery, Vector Databases, Query Optimization

Cloud/DevOps: AWS EC2, AWS S3, Docker, GitHub Actions, CI/CD, Linux, Git

AI/Data: PyTorch, TensorFlow, Transformers, OpenCV, NumPy, Pandas, OCR, LLM APIs

Core CS: Data Structures, Algorithms, OOP, Distributed Systems, System Design, Operating Systems