

Saurya Gur

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EDUCATION

Thapar Institute of Engineering and Technology

B.E. in Computer Engineering

Patiala, India

Aug 2024 – May 2028

EXPERIENCE

DevOps Intern — Center of Excellence (DSAI, TIET-UQ)

2026 – Present

Thapar Institute of Engineering and Technology

Patiala, India

- Integrated local and cloud PACS systems with Mercure to enable real-time medical imaging workflows.
- Deployed NVIDIA MONAI-based AI pipelines on AWS using containerized cloud infrastructure.
- Built CI/CD pipelines and managed Dockerized services for scalable cloud-native deployments.
- Implemented secure DICOM-based data exchange across distributed imaging systems.

Tech Lead — Helix TIET

Mar 2026 – Present

Annual Technical Fest, TIET

Patiala, India

- Rebuilt RAG ingestion pipelines using deterministic chunking, batched embeddings, and metadata indexing.
- Optimized Docker builds and dependency management using uv, reducing build instability for reproducible deployments.

Lead Developer — 50th Saturnalia Core Tech

Aug 2025 – Nov 2025

Thapar Institute of Engineering and Technology

Patiala, India

- Built and deployed backend services supporting 3,000+ users with authentication and payment integration.
- Led backend architecture and deployment workflows for high-traffic technical fest infrastructure.

PROJECTS

Complex | *FastAPI, Redis, PostgreSQL, Celery, WebSockets, Docker*

- Built a distributed real-time trading simulation platform supporting 300+ concurrent users using async FastAPI services and Redis pub/sub.
- Designed a 15-second market tick engine broadcasting live updates over persistent WebSocket connections.
- Integrated LLM-based strategy evaluation pipelines via OpenRouter with admin-gated validation workflows.

Mirage AR Showdown | *TypeScript, Express, Firebase, Kubernetes, Docker*

- Engineered backend systems for a multiplayer AR game tested under 600+ concurrent gameplay sessions.
- Built low-latency synchronization pipelines using Firebase and event-driven state propagation.

ATLAS — AI Photo Narrative Engine | *Computer Vision, RAG, Chain-of-Verification*

2025

- Built a multimodal verification pipeline combining OCR, EXIF metadata, and retrieval-based consistency checks.
- Implemented EXIF-aware reasoning and multi-stage verification workflows during a 22-hour hackathon sprint.
- **1st Place — IEEE BIOS Hackathon 2025**

JanMitra — Voice AI for Rural Accessibility | *Voice Agents, Multilingual NLP, Retrieval Systems*

2026

- Built a toll-free multilingual voice assistant enabling feature-phone users to navigate government schemes in local dialects.
- Designed conversational workflows optimized for low-bandwidth and low-resource deployment environments.
- **2nd Place — SabkaAI Hackathon, India AI Impact Summit 2026**

TECHNICAL SKILLS

Languages: Go, TypeScript, Python, C++

Backend & Infrastructure: FastAPI, Node.js, Express, Docker, Kubernetes, Redis, PostgreSQL, AWS, Firebase, Celery

AI Systems: RAG systems, inference pipelines, Chain-of-Verification, multilingual NLP, voice agents, multi-agent systems, evaluation workflows

Tools: Git, Linux, CI/CD, uv

AWARDS

1st Place — IEEE BIOS Hackathon 2025

2nd Place — SabkaAI Hackathon, India AI Impact Summit 2026

2nd Place — TantraFiesta Web3 Hackathon, IIIT Nagpur 2025