ANSH JAISWAL

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Education

B.Tech, Electronics Engineering (VLSI & Technology)	Aug 2023–May 2027
Manipal Institute of Technology, Manipal	
ISC (Grade 12)	Apr 2020–Jul 2022 — 92.5%
ICSE (Grade 10)	Apr 2018–Mar 2020 — 95.2%

Projects

YatraGPT – AI-Powered Trip Planner

Winner, Finova Softlaunch Hackathon

- Developed a Next.js SSR app on Vercel using Gemini API (via Google AI Studio free tier) to convert user prompts into day-by-day travel itineraries.
- Implemented a lightweight vector memory using Pinecone free tier to store and retrieve past itineraries, increasing returning-user engagement.
- Created a simple 3-stage LangChain pipeline (plan, optimize, format) to reduce response errors and maintain consistency.
- Integrated Mapbox (free tier) for interactive route embeds and OpenWeather free API for dynamic weather-aware suggestions.
- Deployed via GitHub Actions CI/CD; containerized locally with Docker for reproducible development environments.

PulseStack – Global Uptime Monitoring

- Built Go workers polling 10K+ endpoints every 30 s across 3 regions, publishing events to a Kafka-compatible pub/sub (Redpanda).
- Ingested metrics into ClickHouse for fast aggregations; created Grafana dashboards for uptime/SLA reporting.
- Developed alert engine in Go supporting Slack/Twilio notifications, triggered on SLA violations.
- Automated infra using Terraform and local Kubernetes (minikube); CI/CD via GitHub Actions.
- Achieved 99.9% local availability in synthetic testing; self-healing via liveness probes and restart logic.

StudioCast Lite – Multi-Track Recorder

- Built an Electron app with WebRTC for synchronized 4-track audio capture and local file storage (no external services).
- Used Whisper API (free tier) for offline transcription and basic speaker labeling in post-processing.
- Designed a React-based UI for multi-track waveform visualization and per-track volume controls.
- Packaged builds for Windows/Mac with Electron Builder; integrated GitHub Actions for automated test and packaging.

BetPulse – Real-Time Order-Book Simulation

- Developed a Rust-based order-book engine (actix-web) handling simulated buy/sell orders at p99 latency ¡5 ms on local VM.
- Implemented a WebSocket frontend in React for live quote updates and basic LSTM prediction in Python for price movements.
- Used Docker Compose to orchestrate services locally; no paid infrastructure required.
- Conducted quantitative backtests with Pandas/NumPy on synthetic data to validate matching logic stability.

Experience

Freelance Full-Stack Developer	Jun 2023 – Present

Built MVPs and custom web solutions for startups using React, Node.js, and serverless Functions; delivered dashboards, payment integrations, and chatbots.

Technical Skills

Languages:	TS/JS, Go, Rust, Python, C/C++
Frameworks:	React, Next.js, Node, FastAPI, Flutter
Infra:	Docker, K8s, AWS, Terraform, GitHub Actions
Data:	PostgreSQL, ClickHouse, Kafka, Pinecone
AI:	OpenAI, LangChain, TensorFlow, Whisper
Tools:	Git, Grafana, Prometheus, Sentry

Extracurriculars

- **Social Impact:** Founded "Greenagers" club focused on sustainability and civic responsibility; led 25+ community campaigns; organized "Gratitude Week" for 1,000+ underprivileged children.
- **NCC (India):** Served as Lance Corporal from 2017–21; participated in Republic Day Parade (Kolkata) and trained at multiple regional camps including Fort William.
- **Competitive Achievements:** National-level Olympiad ranker (Mathematics, Science); winner of 50+ quiz and debate events across school and college circuits.
- **Academic Distinctions:** Holder of 4 merit awards for top academic performance in Mathematics, Physics, Computer Science, and Hindi across ICSE/ISC board exams.