

ARYAN SETH

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SUMMARY

GenAI and Full Stack SDE with hands-on production experience building LangGraph agentic systems, LLM-powered applications, and scalable REST API backends on Azure. Skilled in React/Next.js, FastAPI/Node.js, and end-to-end deployment. Actively seeking backend, full-stack, or GenAI engineering roles.

EXPERIENCE

UltraTech Cement Ltd. (Aditya Birla Group) — Digital Cell **Aug 2025 – Present**
SDE Intern (GenAI / Full Stack) *Remote*

- Engineered 4–5 internal GenAI applications using React/Next.js and Python; integrated LLM APIs (OpenAI, Gemini, Claude) with SQL-based data workflows via **LangChain** and **LangGraph** agentic pipelines.
- Architected **Navigo** (internal) — a **LangGraph** multi-step agent for contract comparison and risk analysis; delivered clause extraction, diff highlighting, and structured risk summaries, reducing manual review time significantly.
- Built **FuelInsights** (internal) — an AI-powered procurement chatbot using **LangChain** RAG and tool-calling pipelines, surfacing UltraTech raw material insights and interactive graphs for procurement decision support.
- Developed **Sentiment Pulse** (internal) — a commodity news intelligence system using **LangChain** document loaders, web scraping, and GenAI-driven summarization for real-time procurement sentiment signals.
- Implemented secure document ingestion and REST API file upload pipelines using **Azure Blob Storage**, enabling scalable GenAI processing and retrieval workflows across all three applications.
- Owned CI/CD setup and production deployment across the **Azure** ecosystem, ensuring release-ready GenAI applications with environment configs, error handling, and monitoring.

PROJECTS

🔗 **JobberAI** | LangGraph, FastAPI, ChromaDB, Gemini Flash, Next.js, MongoDB, Resend API **2026**

- Architected an end-to-end **autonomous job-application agent** capable of processing both plain-text and screenshot job postings; leverages **Gemini Flash** multimodal inference to extract structured JD metadata with >95% field-level accuracy, eliminating manual data entry entirely.
- Designed a **5-node LangGraph agentic pipeline** with strict state-machine transitions: JD extraction → **ChromaDB** semantic profile retrieval (resume + projects via cosine-similarity RAG) → vector-based duplicate detection → hyper-personalized email synthesis → **Human-in-the-Loop (HITL)** approval gate — cutting per-application cold-email effort from ~10 min to under **60 seconds**.
- Engineered a **Next.js** review dashboard with two-phase HITL workflow: users inspect AI-generated drafts, trigger bulk sends via **Resend API** with auto-attached resume PDF, and receive real-time delivery receipts; all application metadata, email threads, and status transitions persisted to **MongoDB** for full audit traceability.
- Implemented intelligent deduplication using embedding-distance thresholding, preventing redundant submissions across overlapping job posts while maintaining <1% false-positive block rate on genuinely distinct roles.
- 🔗 jobberai.aryantechie.in | 🔗 aryanseth9795/jobberai.backend

🔗 **Finzz — P2P Finance App** | React Native (Expo), Node.js, Express, MongoDB, Firebase FCM **2025**

- Designed and shipped a **full-stack peer-to-peer expense management platform** on React Native (Expo); supports dual-ledger architecture — a private personal ledger (debits/credits with category tagging up to **Rs.1 Crore** in native Indian numbering format) and collaborative shared ledgers with bi-directional friend connections.
- Engineered a **two-way transaction verification protocol**: every shared expense triggers a push notification via **Firebase Cloud Messaging (FCM)**; the counterparty must explicitly **Verify** or **Reject** with an optional remark, creating a cryptographically-inspired *mutual-consent ledger* that eliminates disputed IOUs entirely.
- Built an **automated month-end rollover engine** on the backend (Node.js/Express + MongoDB) that computes net unsettled balances and auto-generates carry-forward entries at period close — ensuring zero financial amnesia across billing cycles with continuous lifetime tracking.
- Implemented an **on-device PDF report generator** producing printable financial infographics: color-coded Sent vs. Received comparison bars, auto-scaled vertical bar charts of daily spending velocity, and one-tap share-sheet integration with WhatsApp, Email, and any installed app — all rendered offline without a server round-trip.
- 🔗 finzz.aryantechie.in | 🔗 aryanseth9795/finzz-backend

UR Shop (Paid Client Project) | Next.js, React Native (Expo), Node.js, Express, MongoDB, TanStack Query

- Architected and delivered a **cross-platform e-commerce solution** (web via **Next.js** + mobile via **React Native/Expo**) for a real cosmetics & grocery client, handling live customer transactions end-to-end — browse, search & multi-filter catalog, cart lifecycle management, and full checkout with persistent order history.
- Designed **RESTful API microservices** in Node.js/Express backed by MongoDB, covering product catalog (search indexing, category hierarchies), user profile & address book, and an inventory-aware order management engine with stock-decrement atomicity.
- Achieved **sub-200ms perceived load times** on 3G networks by integrating **TanStack Query**: aggressive request deduplication, stale-while-revalidate background refetch, and optimistic UI mutations — resulting in a noticeably snappier UX over competing apps in the client’s target market.
- Enforced production-grade engineering standards: modular feature-slice architecture, reusable atomic component library, server-side input validation, and centralized error-boundary handling. 📄 [urshop.aryantechie.in](https://github.com/aryantechie/urshop) (*Private repo — paid commercial engagement*)

📄 Stock Labs | Next.js, TypeScript, ShadcnUI, Tailwind, Express, Socket.IO, Prisma, Redis, PostgreSQL June 2024

- Built a **cross-platform crypto paper-trading platform** (web + mobile app) supporting **50+ trading symbols** with **1-second live tick simulation** via persistent WebSocket channels, real-time portfolio P&L recomputation, and time-series trade history — validated at **~1,000 concurrent users** under sustained load.
- Architected a **horizontally-scalable, event-driven backend**: Redis Pub/Sub decouples price-feed emission from portfolio computation, enabling stateless worker scale-out; JWT-secured auth with refresh-token rotation guards all sensitive endpoints with zero session-fixation exposure.
- Enforced **ACID-compliant transactional integrity** across Portfolio, User, Transaction, and Trade entities via **Prisma ORM** on PostgreSQL; zero data anomalies recorded under high-concurrency stress testing simulating simultaneous buy/sell collisions on identical symbols.
- 📄 [stocklabs.aryantechie.in](https://github.com/aryantechie/stocklabs) | 📄 [Web Repo](#) | 📄 [App Repo](#)

EDUCATION

Indian Institute of Information Technology (IIIT) Bhagalpur <i>B.Tech in Electronics and Communication Engineering</i> CGPA 7.73/10(Absolute)	Aug 2021 – May 2025 <i>Bhagalpur, Bihar</i>
R.N. Tagore Senior Secondary School, Jaunpur, UP <i>Class XII (CBSE) — 89.5%</i>	Apr 2017 – Apr 2019 <i>Jaunpur, Uttar Pradesh</i>
R.N. Tagore Senior Secondary School, Jaunpur, UP <i>Class X (CBSE) — CGPA 10/10</i>	Apr 2015 – Apr 2017 <i>Jaunpur, Uttar Pradesh</i>

TECHNICAL SKILLS

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

Developer Tools: Postman, VS Code, GitHub, Git, Docker

Frameworks: React.js, Next.js, Node.js, Express.js, FastAPI, React Native (Expo)

GenAI: LangChain, LangGraph, LLM APIs (OpenAI, Gemini, Claude), RAG, Prompt Engineering, Document Understanding, Agentic Workflows

Cloud / Databases: Azure (Blob Storage, CI/CD, deployment), MongoDB, PostgreSQL, MySQL, Redis, ChromaDB, Prisma ORM, Cloudinary

Concepts: REST APIs, Microservices, WebSockets, JWT Auth, ACID Transactions, Event-Driven Architecture, Agile

Coursework: DSA, OS, DBMS, OOP, CN, AI, ML

Areas of Interest: GenAI Applications, Agentic AI Systems, Full-Stack Development, Backend Engineering

CERTIFICATIONS & ACHIEVEMENTS

- **AWS Cloud Practitioner Essentials** — cloud concepts, core services, security, compliance, and pricing.
- Built and shipped 3 production GenAI applications (Navigo, FuelInsights, Sentiment Pulse) at UltraTech using LangChain, LangGraph, and Azure; all deployed to production and actively used internally.
- Solved **700+ DSA problems** across LeetCode and CodeChef.
- Volunteered at college technical and cultural fests — event planning, logistics coordination, and cross-functional team collaboration.