



Harsh Tiwari

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Portfolio Website

EDUCATION

Degree/Certificate	Institute	CGPA/Percentage	Year
B.Tech., ECE	Chandigarh Engineering College, Mohali	7.58	2025
Senior Secondary	Sant Atulanand Convent School, Varanasi	81.4	2021
Secondary	Udai Pratap Public School, Varanasi	85.6	2019

EXPERIENCE

- L&T Technology Services** Mar 2026 – Present
Associate Engineer Mumbai, India
 - Contributing to software engineering initiatives across embedded systems, cloud-connected platforms, backend services, and full-stack applications.
 - Developing low-level software components in C++ with a focus on performance, reliability, hardware integration, and system-level optimization.
 - Working on telemetry pipelines, device communication workflows, cloud integration, and monitoring solutions for industrial-scale deployments.
 - Designing and implementing backend services, APIs, and supporting infrastructure for distributed applications.

PROJECTS

- L1 Market Data Engine** 2025
Python, FastAPI, WebSocket, Docker, Binance API [🔗]
 - Built a real-time market data platform capable of ingesting and processing live exchange feeds for trading applications.
 - Implemented concurrent trade and quote stream processing with rolling calculations for VWAP, spread, mid-price, and trade velocity metrics.
 - Designed a normalized market data schema and WebSocket distribution layer for downstream consumers.
 - Developed observability tooling and performance monitoring for latency-sensitive streaming workloads.
- Write: Collaborative Note-Taking Platform** 2025
Next.js, TypeScript, Convex, Clerk, TailwindCSS [Deployed]
 - Developed a modern collaborative note-taking platform with authentication, rich content editing, and responsive user experience.
 - Implemented real-time synchronization using Convex and reactive data flows for seamless collaboration.
 - Built secure authentication and authorization workflows using Clerk with social login providers.
 - Optimized application performance through code splitting, lazy loading, and efficient state management patterns.

SKILLS

- Languages:** C++, Java, TypeScript, JavaScript, Python, SQL
- Frontend:** React.js, Next.js, TailwindCSS, HTML, CSS, Framer Motion
- Backend:** Node.js, Express.js, FastAPI, REST APIs, WebSocket
- Databases:** PostgreSQL, MongoDB, Prisma, Convex
- Cloud & DevOps:** Docker, Git, GitHub, CI/CD, AWS EC2, Vercel
- Systems:** Operating Systems, Computer Networks, DBMS, OOP, Distributed Systems, Real-Time Systems

CERTIFICATIONS

- Udemy** Node.js, Express, MongoDB: The Complete Bootcamp 2023
- 10xDevs** 0-100 Full Stack Web Development Course 2024
- Coursera** Machine Learning Specialization — DeepLearning.AI & Stanford Online 2025