

Himanshu Vishwakarma

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EDUCATION

Maharaja Agrasen Institute of Technology

Bachelor of Technology in Computer Science and Engineering | CGPA: 9.2/10

Delhi, India

Aug 2024 – Present

EXPERIENCE

AarogyalinQ Private Limited

Engineering Intern

Delhi, India

June 2026 – July 2026

- Developed scalable backend services and REST APIs for DigiMitra, an AI-powered smart surveillance platform using Node.js and Express.js
- Built interactive geospatial camera mapping with location-based search, real-time camera monitoring, and live navigation using Leaflet
- Implemented event processing workflows and tested REST API endpoints with Postman during development, improving reliability of low-latency surveillance operations

PROJECTS

SnapURL – URL Shortener with Analytics [Live][GitHub] *Next.js, Redis, PostgreSQL, Docker, Vitest*

- Built a production-grade URL shortener with Redis cache-aside architecture, reducing redirect latency from ~70ms (DB) to under 10ms for cached requests
- Implemented Redis-based rate limiting (100 req/min/IP) using INCR + EXPIRE and designed real-time click analytics with device breakdown and 7-day timeline tracking
- Containerized full stack using Docker (app + PostgreSQL + Redis) and built CI pipeline with 17 unit/integration tests using Vitest; validated all endpoints with Postman

Braid – Real-Time Collaborative Document Editor [Live][GitHub] *Next.js, CRDT (RGA), WebSockets*

- Engineered a real-time collaborative editor around a **custom RGA-based CRDT**, enabling concurrent multi-user edits with deterministic conflict resolution and eventual consistency
- Designed a fault-tolerant **WebSocket synchronization engine** with optimistic updates, offline operation queuing, exponential reconnect backoff

FinTrack – AI-Powered Personal Finance Application [Live][GitHub] *Next.js, Supabase, Prisma, Inngest*

- Designed and built a full-stack personal finance platform with secure authentication and optimized PostgreSQL schema, reducing average DB query time by ~30%
- Integrated Gemini AI to automate financial insights, spending predictions, and budgeting recommendations
- Built event-driven background workflows using Inngest for scalable, asynchronous data processing

TECHNICAL SKILLS

Core CS: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks

Languages: C++, Java, JavaScript, TypeScript, SQL

Frontend: React.js, Next.js, Tailwind CSS

Backend: Node.js, Express.js, REST APIs, JWT Authentication

Databases: PostgreSQL, MongoDB, Supabase

Tools: Git, GitHub, Docker, Prisma, Vercel, Postman

AI/Automation: Gemini API, Inngest

ACHIEVEMENTS & CERTIFICATIONS

Open Source Contributions

GitHub Contributor

- Contributed to **Animate UI** (3.5k+ GitHub stars) by implementing the missing `getStrictContext` utility used by ThemeToggler and Particles components.
- Submitted production-ready code through GitHub pull requests and collaborated via code reviews.

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate

Oct 2025

Deloitte Virtual Experience Program Certification

July 2026