HITANSHU GALA

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EDUCATION

Bachelor of Technology in Information Technology   May 2027
SVKM's Dwarkadas J Sanghvi College of Engineering, Mumbai   CGPA: 8.5

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, SQL
Backend & APIs: Node.js, Express.js, Flask, REST APIs, WebSockets, JWT Authentication, Microservices
Databases & Caching: PostgreSQL, MySQL, MongoDB, Redis, Pinecone, FAISS, pgvector
DevOps & Tools: Docker, Git, CI/CD, NGINX, Linux, GCP
AI/ML & GenAI: LangChain, Crew-AI, RAG, Vector Databases

PROJECTS

Scalable WebRTC Signaling Infrastructure | Node.js, Socket.IO, NGINX, Docker, Redis   GitHub
- Built production-grade WebRTC signaling server with JWT authentication, Socket.IO for real-time peer connections, and Redis pub/sub for horizontal scaling across multiple server instances.
- Configured NGINX as reverse proxy with WebSocket support, load balancing, and TLS termination; containerized with Docker for multi-environment deployment.
- Implemented STUN/TURN servers for NAT traversal and reliable peer connectivity, ensuring low-latency communication for real-time video/audio streaming.

HireAI - Intelligent Recruitment Platform | Python, Node.js, PostgreSQL, pgvector, React.js   Live Demo
- Engineered end-to-end resume processing pipeline handling PDF, DOCX, and TXT formats with 95% accuracy in skills extraction using Python NLP libraries and custom parsing algorithms.
- Designed vector search system using pgvector for semantic job-candidate matching, implementing HNSW indexing and achieving sub-100ms query response times for 10,000+ resume database.
- Architected scalable backend with Express.js and PostgreSQL, implementing connection pooling, Redis caching, and async processing to support 500+ concurrent users with 99% uptime.

AI-Powered Stock Analysis System | Python, Crew-AI, Gemini, Alpha Vantage API, React.js   GitHub
- Orchestrated 6 specialized AI agents using Crew-AI framework for automated financial analysis: data collection, fundamental/technical analysis, sentiment evaluation, and price forecasting with parallel task execution.
- Integrated Alpha Vantage API for real-time market data and built React dashboard with TradingView charts displaying 50+ technical indicators and AI-generated insights.
- Reduced manual analysis time by 50% through automated report generation and improved decision accuracy by aggregating multi-source financial data with AI-driven pattern recognition.

Elden Ring LeetCode Extension | TypeScript, Vite, Chrome APIs   GitHub
- Developed a Chrome extension that adds **Elden Ring–style notifications and achievements** for LeetCode submissions, gamifying the coding experience.
- Engineered background and content scripts to intercept submission events via Chrome WebRequest API and trigger themed animations and audio cues in real time.
- Achieved **200+ active users** and **65+ GitHub stars**, showcasing creativity, front-end scripting, and event-driven architecture.

ACHIEVEMENTS

Competitive Programming: Pupil on Codeforces; solved 250+ problems on LeetCode, with focus on DSA.
Hackathons: Finalist in 6+ national hackathons, showcasing rapid prototyping and full-stack development under time constraints.
IIT Bombay Case Study Competition 2025: Secured 3rd place by designing distributed system architecture with optimal trade-offs for scalability, consistency, and fault tolerance.

LEADERSHIP & INVOLVEMENT

Department Representative | DJS-CodeStars (Competitive Programming Club)   2025-Present
Promoted competitive programming culture through peer mentoring and organized coding contests.

Technical Co-Committee | DJS-S4DS (Society For Data Science)   2024-2025
Developed and deployed full-stack website for DataHack 3.0 datathon using React.js and Node.js, handling 1,300+ registrations and 40,000+ page visits with zero downtime.