Dheeraj Sharma

| dheerajofficial2306@gmail.com | linkedin.com/in/dheerajsharma2399 | github.com/dheerajsharma2399

EXPERIENCE

Sonar Instruments and Technology Pvt Ltd   Feb. 2025 – Present
Software Engineer Intern   *Ghaziabad, India*

- Developed a **real-time IoT monitoring dashboard** visualizing 20,000+ daily data points using React and WebSocket connections, improving operator response time by **25%**.
- Integrated ML model outputs into a user-friendly frontend interface using modern React patterns, increasing user adoption of predictive maintenance tools by **30%**.
- Optimized API response times by **40%** through FastAPI implementation and Docker containerization, handling high-load scenarios with sub-200ms latency.
- Engineered CI/CD pipelines with GitHub Actions, reducing deployment cycles from 20 minutes to **12 minutes** through automated testing.

PROJECTS

OshoApp – Spiritual Audio Platform | *Next.js 15, React 19, TypeScript, Supabase, Meilisearch*   Code

- Architected a high-performance PWA hosting **5,400+ audio discourses** with Spotify-like persistent player, achieving **100/100 SEO Lighthouse score** through Next.js App Router optimization and server-side rendering.
- Built synchronized transcript reader with real-time auto-scrolling using React refs and intersection observers, enabling users to jump audio playback to any timestamp with a single click.
- Implemented offline-first architecture using Service Workers and IndexedDB, supporting up to **500MB of cached audio** for seamless offline listening without network dependency.
- Engineered AES-256-GCM encryption layer for audio URLs with time-limited signed tokens, preventing unauthorized scraping while maintaining sub-50ms search latency via Meilisearch.

Asset Tracker – Fintech Portfolio Manager | *Next.js 14, TypeScript, Tailwind, Supabase Auth*   Code

- Designed responsive fintech dashboard using Next.js App Router and TypeScript, achieving **95+ Lighthouse performance score** through server-side rendering and edge caching on Vercel.
- Implemented secure authentication flow with Supabase Auth and JWT middleware, ensuring **zero unauthorized access incidents** across 500+ test scenarios.
- Built real-time price tracking by integrating CoinGecko and Alpha Vantage APIs with intelligent caching, maintaining sub-100ms response times while respecting rate limits.

Dumroo AI Admin Panel – EdTech Analytics | *React, Streamlit, LangChain, Supabase, Plotly*   Code

- Built interactive analytics dashboard with Streamlit and Plotly, enabling **3 distinct user roles** to visualize educational trends and performance metrics instantly.
- Implemented Text-to-SQL pipeline using LangChain, allowing non-technical users to query databases with natural language achieving **85% accuracy**.
- Reduced administrative reporting time by **60%** through automated data visualization and real-time insights powered by conversational AI.

Telegram Job Management Dashboard | *Flask, Jinja2, PostgreSQL, Telethon, Docker*   Code

- Created Kanban-style application tracker using Flask and Jinja2, reducing job application management time by **40%** through intuitive drag-and-drop interface.
- Engineered asynchronous scraping pipeline processing **1,000+ daily messages** via Telethon, transforming unstructured text into structured data using LLM-powered parsing.
- Deployed fault-tolerant microservice on Render using Docker, implementing automated recovery from network interruptions with **99.9% uptime**.

EDUCATION

Manipal University, Jaipur   Aug. 2023 – Aug. 2025
Master of Computer Applications (MCA)   *CGPA: 8.74*

CERTIFICATIONS

- Google IT Support Specialization (2024)
- System Administration and IT Infrastructure Services (2024)
- Software Engineering Specialization – University of Hong Kong (2023)