Sonia Nanwani

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LinkedIn | GitHub | LeetCode | CodeChef

Education

Walchand College of Engineering, Sangli 2024 – 2028
B.Tech in Computer Science and Engineering *CGPA: 8.23*

Indian Institute of Technology, Madras 2024 – 2028
BS in Data Science and Applications

Technical Skills

Languages: C, C++, Java, Python, SQL, Bash, Go
Web & Frameworks: Java 21, Spring Boot, FastAPI, Django, Next.js, React.js, Flask, REST APIs
Databases: PostgreSQL, ChromaDB, MySQL, SQLite, Firebase, Supabase, PostGIS
Tools & Infrastructure: Linux, Git, GitHub, Docker, Elasticsearch, Kibana, LangGraph, GitHub Actions
Coursework: Data Structures and Algorithms, OOP, Operating Systems, DBMS, Computer Networks, Software Engineering

Work Experience

Pandit Bhandari & Co. | **GitHub** August 2026 – October 2026
SDE Intern (NoticeDesk – Tax Operating System) *Python, Java 21, Spring Boot, PostgreSQL*

- • Engineered an AI-powered GST legal document automation pipeline using Python, LLMs, and PostgreSQL, building 269 structured legal issue cards and reusable reply templates.
- • Implemented hybrid AI-rule-based matching, PII anonymization, and citation verification, reducing average processing costs from 28 to 7.62 per notice; achieved 617 passing tests.

IINFOKIDAA Solutions Pvt. Ltd. | **GitHub** June 2025 – July 2025
Web Development Intern *Flask, SQLite, Jinja2, Bootstrap*

- Built a production-ready EV Battery Swap Booking System with normalized database schemas supporting user authentication, booking flows, and admin management modules.

Projects

Autonomous Multi-Agent RAG System for Legal Workflow | **GitHub** *Django, Angular, LangGraph*

- Collaborated in a team of 3 students to build a LegalTech application automating case management and statutory research using a cyclic multi-agent architecture (Researcher, Drafter, Critic) via LangGraph.
- Integrated ChromaDB and local Llama 3 models for secure, privacy-preserving, on-premise vector search and hallucination reduction.

WireZero – Zero-Copy Binary Protocol Serializer & Deserializer | **GitHub** *C++20, CMake, GoogleTest*

- Engineered a high-performance binary serialization engine in modern C++20 utilizing non-owning byte span views (`std::span`) and strict bounds checking to eliminate heap allocation bottlenecks in data streaming.
- Implemented compile-time metaprogramming using variadic templates and fold expressions, enabling zero-boilerplate struct packing and achieving sub-millisecond throughput for 100,000+ complex records.

Open Source Contributions

deep-lens – Open-Source Ocean Intelligence Platform | **GitHub** *React, FastAPI, Python, PostGIS*

- Implemented a GeoJSON spatial export API for ocean incidents (PR #4) and integrated NOAA Coral Reef Watch thermal-stress data ingestion (PR #3), contributing to geospatial API development and automated environmental data pipelines.
- Established a GitHub Actions CI workflow and updated repository-level .gitignore configuration (PR #2), improving automated validation and development workflow consistency.

Position of Responsibility

Google Developer Group (GDG) Sangli September 2026 – Present
Web Development Lead *Sangli, Maharashtra*

- Leading the web engineering division, driving technical initiatives, and setting development standards for community applications and events.

Achievements

- **Research:** Shortlisted for Research Internship at IIT Bombay : Compiler Optimizations based on Java Value Types.
- **Coding & DSA:** Cleared till Round 2 : HackerRank SDE Intern Solved 850+ DSA problems across LeetCode and CodeChef; CodeChef 2-Star Programmer.
- **Programs & Hackathons:** Shortlisted for Amazon ML Summer School 2026 (among top 3K selected from 1.34L+ applicants); Finalist, GDG Sangli TechSprint 2026 (EcoLens AI); Top 50, Breaking Enigma Hackathon 2026 (TrustTrace).