Vansh Tyagi

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Summary

Aspiring software engineer driven by problem-solving and analytical thinking. Enthusiastic about learning emerging technologies and leveraging them to develop optimized solutions. Committed to continuously enhancing skills to evolve into a versatile and impactful software professional. Passionate about building scalable, user-focused solutions and continuously learning emerging technologies. Proven teamwork, leadership, and innovation through active participation in hackathons and tech communities.

My Portfolio: i.vanshtyagi.live

Education

B.Tech in Computer Science and Engineering   **2023 – Present**

Lovely Professional University, Punjab   8.09/ 10

Skills

- **Programming Languages:** C++, C, Java, Python, JavaScript
- **Frameworks /Libraries:** React JS, Node JS,Next JS, Tailwind CSS, Express JS, Bootstrap
- **Databases:** MongoDB, MySQL, PostgreSQL, SQLite
- **CS Fundamentals:** Data Structures & Algorithms, OOPs, DBMS, OS

Projects

Lost & Found Platform | *Python, SQLite, Gemini API, HTML, CSS, JavaScriptoose*
- Developed an AI-powered platform to help users report and find lost items.
- Integrated Gemini API for generating image descriptions and comparing item details.
- Implemented custom logic for 80%+ similarity detection and user notification system.
- Designed a responsive frontend using HTML, CSS, and JavaScript.

Express News – News Media Portal | *HTML, CSS, JavaScript, PHP (Laravel), MySQL* (Live Demo)
- Built a dynamic news portal with CMS for seamless content management.
- Integrated RSS feeds and developed a custom WYSIWYG editor for article publishing.
- Implemented role-based access control for admins, editors, and readers.
- Deployed using Nginx and REST APIs for efficient content delivery.
- Achieved full Lighthouse score, demonstrating excellence in performance, accessibility, and SEO.

Smart Transit – Bus Tracking App | *MERN Stack, Leaflet, WebSockets, GPS Integration*
- Created a real-time bus tracking application with GPS-enabled live location updates.
- Built a structured system with Admin Panel, Bus Staff Panel, and User App.
- Enabled users to book tickets, track buses, and view live station updates.

Achievements

- Secured **2nd position** in Hackathon 101 among 200+ teams.
- Final-round qualifier in **more than 5 Hackathons** of 100+ teams.
- Solved more than **400+ questions** across various problem-solving and coding platforms.

Certifications

- **NPTEL Certification –** Cloud Computing
- **Google –** The Bits and Bytes of Computer Networking
- **IMB –** Introduction to Hardware and Operating Systems