

Vansh Tyagi

LinkedIn: <https://www.linkedin.com/in/vanshtyagi20/>

GitHub: <https://github.com/vanshtyagi001>

Email: tyagivansh001@gmail.com

Mobile: +91 88650 16512

SKILLS

Languages:	C, C++, Java, Python, JavaScript, Kotlin
Frameworks & Libraries:	React.js, Next.js, Node.js, Express.js, Tailwind CSS, Bootstrap
Mobile Development:	Android SDK, Jetpack Compose, Android Studio, MVVM Architecture, REST APIs
Databases:	MongoDB, MySQL, PostgreSQL, SQLite
CS Fundamentals:	Data Structures & Algorithms, OOPs, DBMS, Operating Systems
Soft Skills:	Organized, Time Management, Adaptability, Leadership, Problem-solving

PROJECTS

Smart Transit – Real-Time Bus Tracking System | [GitHub](#) | [Link](#) Nov' 2025

- Developed a **GPS-enabled real-time** public transit platform allowing users to track buses, view station updates, and book tickets live.
- Designed a **multi-role system with Admin Panel, Bus Staff Panel, and User App**, ensuring structured data flow and operational control.
- Implemented **WebSocket-based live location** streaming to provide second-level bus movement updates with high accuracy.
- Integrated interactive maps using Leaflet for route visualization and station tracking.

Tech: MongoDB, Express.js, React.js, Node.js, WebSockets, Leaflet, GPS APIs

Express News – News Media Portal | [GitHub](#) | [Live](#) Jun' 2025

- Architected a full-stack, **role-based** news publishing platform supporting admins, editors, and readers with secure content workflows.
- Built a **custom CMS with a WYSIWYG editor and RSS feed integration**, enabling real-time article creation and automated content aggregation.
- Implemented **RESTful APIs** with **Laravel and MySQL** for high-performance article delivery and user authentication.
- Optimized frontend and backend performance to achieve a **100% Lighthouse score** across performance, accessibility, best practices, and SEO.
- Deployed on **Nginx** with production-grade configuration for scalability and fast page loads.

Tech: HTML5, CSS3, JavaScript, PHP (Laravel), MySQL, Nginx, REST APIs

Lost & Found Platform | [GitHub](#) Apr' 2025

- Engineered an **AI-powered** lost-and-found system enabling users to report, match, and recover items through image and text-based intelligence.
- Integrated **Google Gemini API** for automated image captioning and semantic description matching, achieving **80%+** similarity accuracy for item identification.
- Designed and implemented a **real-time user notification** engine that alerts owners when high-confidence matches are detected, reducing recovery time by **60%**.
- Built a fully responsive frontend using HTML, CSS, and JavaScript to ensure seamless cross-device accessibility.

Tech: Python, SQLite, Gemini API, HTML5, CSS3, JavaScript

TRAINING

LPU CPE - Full Stack Development in React and Node | [Certificate](#) Jun' 2025 – Jul' 2025

- Built a full-stack MERN e-commerce platform with customer & seller roles, enabling product browsing, cart, checkout, order tracking, and seller dashboards.
- Implemented secure authentication and scalable backend using JWT, bcrypt, Node.js, Express, MongoDB, along with image uploads via Multer and a responsive React

CERTIFICATES

Cloud Computing | IIT Madras | [NPTEL](#) Apr' 2025

The Bits and Bytes of Computer Networking | [Google](#) Sep' 2024

Introduction to Hardware and Operating Systems | [IBM](#) Aug' 2024

ACHIEVEMENTS

Secured 2nd position in Hackathon 101 among 200+ teams. Sep' 2025

Final-round qualifier in more than 5 Hackathons of 100+ teams. Aug' 2023 – Present

Solved 400+ questions across various problem-solving and coding platforms. Aug' 2023 – Present

EDUCATION

Lovely Professional University Phagwara, Punjab
Bachelor of Technology - Computer Science and Engineering | CGPA: 8.28 Aug' 2023 – Present

Shemford Futuristic School Saharanpur, Uttar-Pradesh
Intermediate | Percentage: 65 Apr' 2022 – May 2023

Little Flower School Siddharth Nagar, Uttar-Pradesh
Matriculation | Percentage: 82 Apr' 2020 – Mar' 2021