OJAS BHAGAT

Ojasbhagat8304@gmail.com ◇ +91 7028870406 ◇ Nagpur, Maharashtra ◇ GitHub ◇ LinkedIn

SUMMARY

- B. Tech 4th-year student at IIIT Sonepat, specializing in Software Engineering and Information Technology, with a strong foundation in Computer Science and programming. Skilled in full-stack development using JavaScript, Python, MongoDB, and other modern front-end languages and frameworks. Experienced in building scalable web applications and working with web architecture principles. Proficient in multiple programming languages and comfortable in Unix/Linux environments. Strong project management, verbal communication, problem-solving skills, and organizational skills, with proven attention to detail and excellent verbal abilities. Actively developing communication personal projects and continuously learning emerging technologies.

EDUCATION

Indian Institute of Information Technology (IIIT), Sonepat — Haryana, India
B.Tech in Information Technology — 2022 – 2026

EXPERIENCE

SearchUnify Grazitti Interactive — June 2025 – Present
Software Developer Intern

- Architected a Docker-based shared-volume pipeline for image attachments, enabling efficient single-write storage and seamless integration with LLM-powered agents to support scalable multimodal workflows.
- Engineered a multilingual agent framework with automatic language detection and dual-stage prompting, delivering English chain-of-thought reasoning and dynamic replies in users' native languages to enhance global accessibility.
- Developed a real-time sentiment analysis and conversation clustering service that parses LLM outputs and persists tone metrics in MongoDB, enabling adaptive dialogue strategies and actionable analytics.
- Worked with technologies including **Node.js, Express, MongoDB, Docker, Kafka, Redis, LangChain, LangGraph**.

PROJECTS

AutoFlow | Workflow Automation Platform — 2025

- Built a distributed system with 5+ actions, enabling custom workflows with triggers and chained actions.
- Implemented Kafka-powered queueing and Express.js APIs to handle event ingestion, processing, and reliable execution with retry support.
- Designed a real-time UI using Next.js for workflow creation and monitoring.
- Used PostgreSQL for persistent workflow storage and Docker for containerized, scalable deployment across services
- *Technologies: Next.js, Tailwind CSS, Kafka, Express.js, PostgreSQL, Docker, Node.js, Webhooks.*

TrafficIntello | Smart Traffic Management — 2025

- Developed a vision-based AI system to predict congestion and optimize traffic signals, reducing wait time by 50%.
- Implemented emergency vehicle detection and dynamic signal overrides to minimize delay.
- Created a Next.js UI for real-time workflow design and job monitoring.
- *Technologies: Python, OpenCV, Flask, SUMO, Mapbox, React, Node.js, WebSocket.*

TECHNICAL SKILLS

- Languages: C/C++, Java, Python, JavaScript
- Technologies/Frameworks: HTML, Tailwind CSS, NodeJS, ExpressJs, MongoDB, PostgreSQL, React, Next.js, Kafka, Flask.
- Data Structures: Proficient in Arrays, Linked Lists, Hash Maps, Recursion, Stack and Queues, Sorting and Searching Algorithms, Trees, Graphs, • Dynamic Programming.
- CS Fundamentals: Object Oriented Prog. (OOPs), Operating Sys. (OS), Computer Networks (CN), Database Management Systems (DBMS).

ACHIEVEMENTS

- Solved over 500 problems on coding platforms like LeetCode and Codeforces.
- LeetCode Rating: 1600+ (Top 20%).
- 4 Star at codechef. Rating 1806.

CERTIFICATES

- The Complete Web Development Bootcamp – Angela Yu (2024)