

Aman Singh

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Summary — Computer Science and Engineering graduate with hands-on experience in full-stack web development. Driven to apply technical skills in a professional environment and contribute to real-world software solutions. Strong problem-solving abilities with over 500 questions solved on LeetCode, ranked in the top 33.3% .

Skills

Languages : Java, JavaScript, C, Python

Frontend : HTML, CSS, React.js

Backend : Node.js, Express.js, JSP, Servlets, JDBC, Spring Boot

Databases : MongoDB, MySQL

Tools : Visual Studio Code, Git, GitHub

OS : Windows, Linux

Projects

Malaria Tracker

Jun 2025 – Mar 2025

A web-based system for tracking malaria cases across India.

- Developed a full-stack web application using React (frontend), Express.js (backend), and MongoDB (database).
- Designed a state- and district-based tracking system for malaria cases, including active cases, total cases, and recoveries.
- Implemented a hospital-based data entry system in which hospitals update case details in real time.
- Optimized database queries for efficient data retrieval and visualized trends using charts and graphs.
- Ensured secure API communication and authentication for authorized hospital data entry.

Railway Tools Management System

July 2025 – Aug 2025

Inventory Management System for Railway Departments (React, Express.js, MongoDB)

- Developed a full-stack web application to manage and track railway tools across different departments.
- Implemented secure login and signup functionality with support for Google OAuth authentication.
- Designed department-specific dashboards allowing users to add, update, and delete tool inventory with quantity details.
- Ensured automatic association of entries with the logged-in user's department for organized data handling.
- Utilized React (Vite) and Tailwind CSS for a responsive UI, with Express.js and MongoDB handling backend and database operations.

Hospital Management System

Sep 2025 – Sep 2025

A Java-based web application for managing hospital operations.

- Built using JSP, Servlets, and JDBC with MySQL as the database.
- Implemented features to add patients, view patient records, view doctors, book appointments, and check appointment details.
- Designed a user-friendly interface for hospital staff to manage records efficiently.
- Integrated CRUD operations with secure database connectivity for reliable data storage and retrieval.

Education

Rajkiya Engineering College Sonbhadra

Jul 2022 – Present

Degree: Bachelor of Technology (B.Tech.) in Computer Science and Engineering.

Key Subjects: Data Structure, Design and Analysis of Algorithm, Operating System, DBMS, Computer Networks.

Experience

Summer Intern – Software & Systems

Banaras Locomotive Works (Indian Railways), Varanasi

- Collaborated on a project to enhance software systems and planning workflows in a railway manufacturing setup.
- Gained hands-on experience in software analysis, system design, and industrial process integration.
- Participated in technical discussions and contributed to project deliverables as part of a collaborative team.
- Submitted a final report detailing project outcomes and key technical learnings..

Achievements

– Solved over 500 problems Leetcode.

– Achieved the leetcode rating of 1,581.