

Abhay Singh

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EDUCATION

Maharaja Agrasen Institute Of Technology

Bachelor of Technology in Computer Science Engineering (Data Science)

2023 – 2027

GPA: 8.51/10

- Coursework: DBMS, Data Structures & Algorithms, Operating Systems, Machine Learning, Computer Networks, OOPS

EXPERIENCE

Web Development Intern

New Digital Bharat

Jun 2025 – Jul 2025

Remote

- Developed and deployed a **responsive** web application using React, HTML, CSS, and JavaScript, improving page load performance by **30%** through optimized component rendering and asset compression.
- Built reusable UI components and implemented structured project architecture, reducing code redundancy by **25%** and improving **maintainability**.
- Deployed the application on Vercel with **Git-based CI/CD**, ensuring 99% uptime and streamlined version control using Git & GitHub.

PROJECTS

Penny Path | Expense Tracker

- React, Node.js, Express, MongoDB, JWT, Bcrypt*
- Designed and deployed a **full-stack MERN** application for real-time expense tracking, supporting **CRUD operations** and handling multi-user transactions per session.
 - Developed interactive financial dashboards using React and dynamic **data visualization** (Pie, Bar Charts), improving user insights and reducing manual tracking effort by **40%**.
 - Implemented secure **JWT-based Authentication** with **bcrypt** password hashing and protected API routes to ensure secure session management.
 - Built RESTful APIs and optimized MongoDB queries with indexing; enabled **Excel (.xlsx) export** functionality for offline data analysis.

Blogatron | Blogging Platform

- Node.js, Express, EJS, Bootstrap, MongoDB, JWT*
- Implemented **RESTful APIs** to support scalable **CRUD operations** for blog posts and threaded comment systems.
 - Implemented secure **JWT-based Authentication** including protected routes, ensuring restricted content access and secure user sessions.
 - Optimized **MongoDB schema design** to efficiently handle dynamic content rendering, reducing API response time by **25%**.
 - Utilized **EJS templating** for server-side rendering, improving SEO visibility and initial page load performance compared to client-side only apps.

SKILLS

Languages: C++, Python, R, JavaScript, SQL

Frameworks/Libraries: React, Node.js, Express, NumPy, Pandas, Matplotlib, Scikit-Learn, PyTorch

Databases & Tools: MongoDB, MySQL, Git/GitHub, VS Code, Jupyter Notebooks, Vercel

CERTIFICATES

Google Prompt Engineering Certificate: Expertise in crafting effective AI prompts for optimized LLM responses.

IBM Professional Certifications: Completed Python for Data Science and Databases and SQL (51+ hours), covering advanced data analysis and database fundamentals.