

Abhay Kumar

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Portfolio | LeetCode | CodeChef | Codeforces

Education

Madan Mohan Malaviya University of Technology

Bachelor of Technology in Computer Science and Engineering (Current CGPA: 8.28)

Gorakhpur, Uttar Pradesh

2023 – 2027

Experience

GateX Innovations Pvt. Ltd.

Back-End & Cloud Intern

Dec 2025 – Present

Gorakhpur, Uttar Pradesh

- Architected an **offline-first, event-driven backend** using **Node.js** and **PostgreSQL** to process gate events, ensuring 100% data consistency via strict ordering and deduplication.
- Developed scalable, **multi-tenant REST APIs** using **Prisma ORM**, implementing Role-Based Access Control (RBAC) and ensuring **GDPR-compliant** secure data storage.
- Optimized identity binding and attendance correlation algorithms, significantly reducing query response time for real-time dashboard updates.

Zelosify

Oct 2025 – Nov 2025

Software Development Engineer (SDE) Intern

Remote

- Engineered a **real-time notification system** integrating **Novu-Cloud** and **WebSockets**, supporting in-app feeds and FCM push notifications for high-volume user engagement.
- Implemented a robust **Vendor Management Module** utilizing **AWS S3** and pre-signed URLs for secure candidate profile uploads, maintaining strict tenant isolation.
- Enhanced database integrity by utilizing **Prisma transactions** within a **Next.js** and **PostgreSQL** environment, adding features for user preference management and data archiving.

Projects

SOS Alert | React, Node.js, MongoDB, WebRTC, Socket.IO

July 2025

Project Links: [Live Demo](#) | [GitHub Repository](#)

- Real-Time Communication:** Built a live emergency streaming service using **WebRTC** and **Socket.IO**, enabling instant video/audio sharing and low-latency location broadcasting via Google Maps API.
- Secure Authentication:** Developed a JWT-protected system with OTP validation and password recovery; integrated **Cloudinary** for optimized media storage and management.
- Admin Dashboard:** Created a responsive admin panel to visualize user records and export analytics in CSV/PDF formats, facilitating efficient data management.

Train Tracker | React, Node.js, Express.js, REST APIs

March 2025

Project Links: [Live Demo](#) | [GitHub Repository](#)

- Live Tracking Engine:** Implemented real-time train status updates by integrating third-party location APIs, ensuring accurate movement visualization for users.
- Frontend Architecture:** Designed an interactive coach layout interface using **React.js** components, optimizing the user experience for seating arrangement visualization.

Technical Skills

Languages: C++, JavaScript, TypeScript, Python, C

Backend: Node.js, Express.js, REST APIs

Frontend: React.js, Next.js, Tailwind CSS, HTML5, CSS3

Databases: PostgreSQL, MongoDB, MySQL, Redis

Cloud & DevOps: Docker, AWS (S3, EC2), Git, GitHub

Real-Time Technologies: WebRTC, Socket.IO, WebSockets

CS Fundamentals: Data Structures & Algorithms, OOPS, DBMS, Operating Systems, Computer Networks

Achievements

- Global Rank **1763** in **TCS Codevita Round-2** & Rank **2992** in Round-1 (Season 13).
- Solved **750+** Data Structures & Algorithms problems across LeetCode, CodeChef, and Codeforces.
- CodeChef:** Rated **1704** (3-Star) | **Codeforces:** Rated **1333** (Pupil).
- Secured **2nd Rank** in GitHub Open Source Event.