

# Abhay Kumar

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🌐 Portfolio 📁 LeetCode 📄 CodeChef 🏆 Codeforces

## Education

**Madan Mohan Malaviya University of Technology**

**Gorakhpur, Uttar Pradesh**

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

*2023 – 2027*

## Experience

**GateX Innovations Pvt. Ltd.**

**Dec 2025 – Present**

*Back-End & Cloud Intern*

*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.