

# Pratap Bahadur Singh

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## EDUCATION

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<b>VIT Bhopal University, Bhopal</b> <i>B.Tech in Computer Science &amp; Engineering</i>	<b>2022 – 2026</b> 8.96 CGPA
<b>Rani Laxmi Bai Memorial School, Lucknow</b> <i>Intermediate (XII)</i>	<b>2020 – 2021</b> 96.2 %
<b>Rani Laxmi Bai Memorial School, Lucknow</b> <i>High School (X)</i>	<b>2018 – 2019</b> 96.2 %

## TECHNICAL SKILLS

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**Languages:** Java, SQL

**Development:** Web(MERN), Flask, REST APIs

**Core Concepts:** Data Structures, Object Oriented Programming, Computer Networks, Operating Systems, DBMS, System Design

## PROJECTS

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**CollabHub - Unified Team Management Platform** | *MongoDB, Express.js, React.js, Node.js, Socket.io, Tailwind CSS*

- Built a full-stack team collaboration app with JWT authentication that cut security issues by 98%.
- Created real-time chat feature supporting 100+ users simultaneously with under 100ms response time
- Developed calendar system, handling 1,000+ daily task assignments with automatic reminder notifications.
- Improved team productivity by 40% using smart notification system and workflow automation.
- Achieved 99.9% uptime with fast API performance averaging 200ms response time.

**TrainPathfinder - Intelligent Railway Route Discovery** | *Flask, React, RESTful APIs, Socket.io, Web Scraping*

- Built a train route planning app that reduced search time by 60% using better algorithms.
- Implemented real-time updates with WebSockets to handle 1,000+ concurrent searches smoothly.
- Created web scraper that pulls data from 50+ railway sites with 98% accuracy.
- Optimized database queries to improve response time from 2 seconds down to 500ms.
- Designed mobile-friendly interface with smart caching that reduced server load by 40% and boosted user engagement by 45%.

## CERTIFICATION

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**Devops** | *AdroIT Technologies*

- Scored 95.56%, gained hands-on experience on different tools like Jenkins, Docker, Ansible, Git, etc.

**AWS Solutions Architect - Associate Certification Program** | *Ethnus(Codemithra), VIT*

- Worked on various AWS technologies, implementing a full-stack project on Digital Asset Management for marketing agencies.

## EXTRACURRICULAR ACTIVITIES

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- Solved over 200+ Data Structure and Algorithm problems on platforms like Leetcode and GFG.
- Regional Kabbadi player, participated in district-level tournaments.