

YUVRAJ PRATAP SINGH

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EDUCATION

Vellore Institute of Technology, Bhopal

2022 – 2026

B.Tech in Computer Science and Engineering – CGPA: 8.31

Bhopal, Madhya Pradesh

City Montessori School – ISC (Class 12th)

2020 – 2022

Percentage: 91%

Lucknow, Uttar Pradesh

City Montessori School – ICSE (Class 10th)

2018 – 2020

Percentage: 88.8%

Lucknow, Uttar Pradesh

SKILLS

- **Languages:** C++, Java, Python, JavaScript, SQL
- **Web & App Development:** React.js, Node.js, Express, React Native, HTML/CSS
- **Database/Tools:** MongoDB, MySQL, Git, Postman, Firebase, AWS, Linux
- **Concepts:** OOP, REST APIs, MVC Architecture, Data Structures, Algorithms

PROJECTS

TutorBot – AI Tutoring Assistant

2025

Python, Flask, OpenAI, ML

- Developed an AI chatbot providing subject-wise academic support to **500+ students**.
- Leveraged OpenAI APIs to achieve **92% accuracy** in understanding student queries and generating responses.
- Built adaptive learning modules that improved quiz scores by an average of **18%**.
- Enhanced conceptual clarity, reflected in **30% increase** in positive feedback from pilot testing.

Apollo – Ride-Hailing App

2024

React Native, Express, MongoDB

- Designed a scalable ride-booking system supporting **200+ concurrent ride requests**.
- Integrated Google Maps API enabling real-time GPS tracking with **95% route accuracy**.
- Implemented secure backend authentication, fare calculation, and driver rating system, improving retention by **15%**.
- Integrated Stripe API to process **100+ test payments** with zero transaction failures.

VIT Exchange – Student Marketplace

2023

React, Node.js, MongoDB, AWS

- Developed a peer-to-peer item exchange platform adopted by **300+ students** across VIT campuses.
- Incorporated JWT-based login and item verification, reducing fraudulent listings by **40%**.
- Enabled secure real-time chats with **500+ active messages exchanged** during launch.
- Deployed on AWS with CI/CD pipelines, reducing downtime to less than **0.5%**.

CERTIFICATIONS & ACHIEVEMENTS

- Mastering Data Structures and Algorithms – Udemy
- C++ Programming – Udemy
- Graph Data Structures for Competitive Programming – Udemy
- Data Structures and Algorithms – HackerRank
- 5-Star Ratings in Java, C++, C, Python – HackerRank
- Built and maintained personal GitHub portfolio with open-source contributions.

LEADERSHIP & EXTRACURRICULAR

- Led a 10-member Creative Team at Google Developers Group (GDG), organizing **12+ workshops** with **300+ attendees each**.
- Managed logistics for annual tech fest with **1,200+ participants**, improving event efficiency by **20%**.
- Served as evaluator in hackathons, reviewing **50+ projects** and providing mentorship to student teams.