

# VATSAL SINGH

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## Education

### VIT Bhopal University, Sehore

*Bachelor of Technology in Computer Science Engineering - CGPA : 9.14*

**Jun 2021 - Present**

*Bhopal, Madhya Pradesh*

### Mission Emmanuel Sr. Sec. School, Jhalawar

*Class XII (CBSE) - Percentage : 86.8*

**May 2020**

*Jhalawar, Rajasthan*

### Army Public School, Allahabad

*Class X (CBSE) - Percentage : 92*

**May 2018**

*Allahabad, Uttar Pradesh*

## Technical Skills

**Languages:** C++, Javascript, SQL

**Backend Technologies:** MongoDB, Express.js, Node.js, RESTful API

**Frontend Technologies:** HTML5, CSS3, React.js, Redux, Immutable.js,

**Database Technologies:** MongoDB, MySQL

**Developer Tools:** Git, Github, Vercel, VS Code

**Certifications:** *Intro to SQL by Kaggle*

## Experience

### Ethnus

**Aug 2023 - Nov 2023 | Link**

*Intern — Tech Used : React, MongoDB, Express, Node.js*

*Bhopal, Madhya Pradesh*

- Worked closely with the development team, achieving hands-on experience in developing and enhancing web apps.
- Formulated Ticket Support Backend for managing customer inquiries and support tickets.
- Delivered optimized backend development, database design, and system architecture solutions by implementing scalable microservices architecture, resulting in a 40% reduction in query response times.

## Projects

### Taskify | MongoDB, Express.js, React.js, Node.js

**Web App Link**

- Fabricated a responsive webapp enabling users to sign up, log in, create, edit, and organize tasks with real-time updates, featuring to-do lists, note-taking, reminders, and task categorization for efficient task management.
- Developed a RESTful API using Node.js and Express.js, and integrated MongoDB for scalable, rapid data retrieval, reducing load times.
- Implemented JWT-based authentication for secure session management and OAuth integration for seamless third-party logins, enhancing user convenience and data security.

### CryptoRadar | HTML, CSS, JavaScript, SQL, Material UI, Chart.js, Context API

**Web App Link**

- Developed a dynamic web application that fetches real-time cryptocurrency data from an API and displays key metrics such as name, price, 24h change rate, and market cap.
- Designed an interactive UI using Material UI/Tailwind CSS for a seamless user experience, including a carousel of trending coins and a sortable list of the top 100 cryptocurrencies.
- Integrated JavaScript for smooth client-side functionality and SQL for secure user authentication and data storage.
- Enabled users to log in, save, and monitor their preferred coins for easy tracking.

## Co-curriculars

**Leetcode:** Accomplished proficiency in over 300 problems with a peak contest rating of 1504.(Id: vasp0007)

**Geeks for Geeks:** Solved 250+ problems with a total score of 500+ and 3 star in contest.

**HackerRank:** 5 stars in SQL

## Extra-curriculars

**Kasporov Chess Cup:** Represented college in 4th Annual Kasparov University Cup competing against 117 colleges from 25 countries.

**Event Organization:** Organized a prestigious chess tournament with participation from 200 players representing colleges from across India, during the Advitya Sport Fest.