

# PRINCE KUMAR

Kota - 325003

📞 7412990676 ✉ [princekumariitkota@gmail.com](mailto:princekumariitkota@gmail.com)  [Linkedin](#)  [Github](#)

## Summary

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I am a dedicated full-stack developer passionate about web development and continuous learning. I have hands-on experience creating user-centered applications, including a To-Do management tool, password generator, weather website, food delivery platform, chat application, and bank management system. Skilled in data structures, algorithms, and problem-solving, I thrive on tackling complex challenges and delivering efficient solutions that enhance functionality and user experience.

## Education

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**Indian Institute of Information Technology (IIIT), Kota** 2021 - 2025  
*Bachelor of Technology in Computer Science and Engineering*

**Chhatrapati Shivaji Children Sr. Sec. School, Shivpura, Kota** 2020  
*Science, RBSE(XII)- 77%*

## Projects

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### Food Delivery Website | *MERN* | [GitHub](#) | [Live Link](#)

- Developed a dynamic **food ordering** application using **React.js**, **Redux** for state management, **React Router** for navigation, and **Hooks** for component functionality, featuring **filters by price** and **food category**.
- API and Security:** Developed a secure backend with **Node.js** and **Express.js**, implementing a **RESTful API**, using **JWT** for authentication, **Bcrypt** for password security, and **CORS** for safe cross-origin resource sharing.
- Utilized **MongoDB** for effective **data modeling** and schema validation, implemented **middleware** for improved security and error handling, and employed **Axios** for seamless **HTTP** requests between client and server.

### Bank Management System | *C++* | *MERN In Progress* | [GitHub](#)

- Developed a **banking management system** using **Object-Oriented Programming (OOP)** principles, integrating **encapsulation**, **inheritance** for a **modular** and **scalable architecture** for a flexible.
- Implemented robust **file handling**, **concurrency control**, and **transaction management** features for **secure data storage** and efficient processing with a **file system**, including functionalities for **case deposits** etc.
- Enhanced **reliability** through **security protocols** and **state management**, utilizing **version control**.

### ChatConnect: Real-Time Messaging | [Github](#) | [Live Link](#)

- Developed a **real-time chat** application utilizing **WebSocket** for seamless communication, with **Redux Toolkit** for efficient global state management and **async thunks** to handle **asynchronous data** fetching.
- Implemented user **authentication** and **authorization** with **JWT tokens** for secure access, utilizing **middleware** and thunks for validation, and a **RESTful API** to manage login and registration workflows with **encryption**.
- Designed a **responsive UI/UX** with CSS styling, **media queries**, and **conditional rendering**, optimizing cross-device compatibility and enhancing user engagement through intuitive interface elements.

## Technical Skills

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- Programming Languages:** C++, JavaScript, Python, SQL.
- Developer Tools:** VS Code, Git, GitHub, Kaggle, Jupyter Notebook.
- Framework:** React, Node, Express, Tailwind.
- Miscellaneous:** HTML, CSS, MongoDB, Excel.
- Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems (DBMS), Operating Systems, and Computer Networks.

## Achievements

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- Achieved a perfect score of **100/100** in Mathematics in the RBSE 12th Board exams.
- LeetCode Excellence:** Achieved an impressive peak rating of **1541** with the handle *princeiitk*.
- 5-star **C++** and **SQL** coder on **HackerRank** with extensive problem-solving skills.
- Showcased algorithmic proficiency via **600+** **coding challenges** on platforms like **Coding Ninjas**, **CodeChef**, **LeetCode**, and **GeeksforGeeks**, enhancing analytical reasoning skills across various difficulty levels.