KRISHNANSHU CHAUDHARY

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PROFILE SUMMARY

Full-stack/Software developer skilled in ***React***, ***Node.js***, ***Express***, ***MySQL***, ***MongoDB***, ***JavaScript***, ***C++***, ***Python***. Experienced in building deployed, responsive web applications with strong knowledge of ***DSA***, ***OOP***, ***OS***, ***DBMS***, and backend development. Currently in the final year of **MCA** at **JNU**, seeking opportunities to apply full-stack development skills in real-world projects. **Available for full-time internship or entry-level software developer roles.**

EDUCATION

Jawaharlal Nehru University, New Delhi, India (2024 – 2026)
MASTER OF COMPUTER APPLICATIONS
CURRENT CGPA: ***7.4/9 (79%)***

Chhatrapati Shahu Ji Maharaj University, Kanpur, India (2021 – 2024)
BACHELOR OF COMPUTER APPLICATIONS
CGPA: ***9.09/10 (86.4%)***

TECHNICAL SKILLS

Languages: JavaScript (ES6+), Python, Java, C, C++
Frontend: HTML5, CSS3, Tailwind CSS, React.js, React Router
Backend: Node.js, Express.js, REST APIs, Authentication (JWT), MVC Architecture
Databases: MySQL, MongoDB
Tools: Git, GitHub, VS Code, Postman, NPM, Vite
Deployment: Vercel
DevOps / Containerization: Docker, CI/CD (GitHub Actions)
Core CS: Data Structures & Algorithms (DSA), OOP, DBMS, Operating Systems, Computer Networks

PROJECTS

Web Series Awards | *HTML, CSS (Tailwind), JavaScript, NodeJS, Express, MySQL*

Deployed: Web-series-awards.vercel.app | **GitHub**: Web-series-awards.git

Engineered a scalable RESTful API using **Node.js** and **Express.js** to manage registration, authentication, and voting logic.
Secured user data by implementing password hashing with **bcrypt.js** and storing all user and vote information in a **MySQL database**.
Ensured data integrity in the voting process by implementing backend logic to detect and **prevent duplicate votes** based on the unique combination of user_id and category.
Developed a responsive front-end using vanilla **HTML, JavaScript, and Tailwind CSS** for a seamless user experience.

Portfolio Website | *React, Tailwind CSS, JavaScript, NodeJS (Vite)*

Deployed: krishnanshu-portfolio.vercel.app | **GitHub**: Portfolio-website.git

Developed a modern, Single Page Application (SPA) using the **React.js** library and a component-based architecture to logically structure the content and manage UI state with smooth-scrolling component sections (Hero, About, Skills, Projects, contact) for intuitive navigation and a fluid user experience.
Designed a responsive, mobile-first UI using the utility-first framework **Tailwind CSS** to ensure cross-device compatibility and deliver a modern aesthetic.
Optimized the development and production build by utilizing **Vite**, achieving minimal bundle sizes and fast development server restart times.
Toggle theme button with different design for **light and dark mode** to improve the user experience and appeal of the website.

Tetris Game | *Python, Pygame*
GitHub: Tetris-game.git

Designed and implemented core game logic using Python's **Object-Oriented Programming (OOP)** paradigm. This involved creating decoupled Block classes (I, L, J, O, S, T, Z) and a Grid class to manage piece state and the 20×10 play area.
Developed algorithms for critical Tetris mechanics including boundary and piece **collision detection** (block_fits), 4-state block rotations, and securely locking pieces into the game grid.
Implemented efficient grid management logic (clear_full_rows) to identify and remove full horizontal lines, accurately shifting all remaining blocks downwards, and updating the player score accordingly.
Demonstrated proficiency in **event-driven programming** by utilizing Pygame's main loop to process keyboard input and control the game speed via a precise (GAME_UPDATE) timer.

ADDITIONAL INFORMATION

- Strong debugging, problem-solving, and analytical skills.
- Experience writing clean, modular, reusable code.
- Strong understanding of software engineering fundamentals.
- Comfortable with Git, GitHub, and version control workflows.
- Comfortable integrating REST APIs.