RITESH PAL

📞 +91 9289279272 ✉ dev.01ritesh@gmail.com 🔗 LinkedIn ⬡ GitHub </> Leetcode 💼 Portfolio

EDUCATION

Delhi Technological University, New Delhi   **2021–2025**
B.Tech in Mathematics and Computing Engineering   *New Delhi, India*

GBSSS No.2 School, Roop Nagar, Delhi   **2019–2020**
Class XII, CBSE (82%)   *Delhi, India*

Mount Olivet Sr. Sec. School, Delhi   **2017–2018**
Class X, CBSE (81.2%)   *Delhi, India*

EXPERIENCE

Software Developer—React,Redux,Nodejs   **May 2024 - Oct 2024**
Bramer Pvt. Ltd.   *Link*

– Made frontend optimization efforts, reducing component load time by 40% using **lazy loading** and **code splitting**.
– Developed and handled **10+ reusable UI components**, ensuring a uniform design system across the application.
– Collaborated cross-functionally with UI/UX and backend teams to deliver **responsive interfaces**, increasing user satisfaction scores by 20%.
– Implemented efficient **state management** with React hooks, enhancing app responsiveness and minimizing re-renders.

Computer Subject Matter Expert—C++,OOPs,DBMS,OS   **Mar 2023 – Sept 2024**
Chegg India Pvt. Ltd - Freelance   *Link*

– Solved and reviewed academic problems in core CS subjects including Data Structures, Algorithms, OOPs, DBMS, OS, and C++.
– Provided step-by-step solutions to students' queries ensuring conceptual clarity and academic integrity.
– Delivered accurate and timely responses aligned with Chegg's quality and subject guidelines.

PROJECTS

Splitwise Debt Settler — HTML, CSS, JavaScript, ReactJS, Algorithm   Link
– Constructed fullstack debt management app using **graph heap** algorithms to automate tracking and settlement
– Integrated **graph-based algorithms for optimal transaction** resolution and improved accuracy.
– Optimized expense tracking UI, **reducing processing time by 25%** and improving user efficiency.
– Introduced **real-time notifications** with **WebSockets** to alert users of new transactions.

MyChat Application — Node.js, Express.js, Socket.IO, MongoDB, JWT, HTML/CSS/JS   Link
– Developed a real-time chat app enabling instant user-to-user messaging using Socket.IO and WebSockets.
– Built secure user authentication system with JWT, supporting login/logout and chat room functionality.
– Designed responsive frontend with HTML, CSS, JavaScript; integrated RESTful APIs for seamless UX.
– Applied real-time data handling, asynchronous communication, and scalable backend practices.

SKILLS

– **Languages:** C/C++, Python, HTML/CSS, JavaScript, SQL/NoSQL, Java
– **Frameworks and Tools:** React.js, Redux, Node.js, ExpressJS, RestApi, MongoDB, TailwindCSS, Git/GitHub, AWS S3
– **Areas of Interest:** Machine Learning, Artificial Intelligence, System Design
– **Relevant Coursework:** Data Structures and Algorithms, Object Oriented Programming, Computer Networks, Operating Systems, Database Management Systems, Cloud Computing

CODING PROFILE

– **Ranked 1669** in Contests on LeetCode; solved **550+ DSA problems** on LeetCode.
– Sustained **200+ day problem-solving streak**, showcasing consistency and dedication to algorithmic mastery.
– Designation of **Level 3 Coder** on Naukri.com (former CodeStudio).
– Solved **700+ DSA problems** across LeetCode, CodeChef and GFG.

RESPONSIBILITIES AND ACHIEVEMENTS

– **Mentor (Desh Ke Mentor Programme):** Mentored 5+ Class X students, achieving **85% average grade improvement**
– **Management Head of Pratibimb (Dramatic Society):** Led strategic planning and **coordination of 10+ society events**, increasing annual participation by 40%.
– **SSB Candidate – Indian Navy:** Cleared all rounds of 6-day Services Selection Board assessment, Vizag.
– **Hackathon Finalist:** Selected among top 1% of applicants in HCL Tech Hackathon Challenge.
– Cleared JEE Main **(Rank: 22015)** and **UPSC NDA** (Written).