

RITESH PAL

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EDUCATION

Delhi Technological University, New Delhi <i>B.Tech in Mathematics and Computing Engineering</i>	2021–2025 <i>New Delhi, India</i>
GBSSS No.2 School, Roop Nagar, Delhi <i>Class XII, CBSE (79%)</i>	2019–2020 <i>Delhi, India</i>
Mount Olivet Sr. Sec. School, Delhi <i>Class X, CBSE (81.2%)</i>	2017–2018 <i>Delhi, India</i>

EXPERIENCE

Web Developer Intern — Bramer Pvt. Ltd.	June 2024–July 2024
<ul style="list-style-type: none">– Spearheaded 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.	

SKILLS

- **Languages:** C/C++, Python, HTML/CSS, JavaScript, SQL/NoSQL, Java
- **Frameworks and Tools:** React.js, Redux, Node.js, ExpressJS, fastApi, MongoDB, TailwindCSS, Git/GitHub
- **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

PROJECTS

Splitwise Debt Settler — HTML, CSS, JavaScript, ReactJS, Algorithm	Link / Deployed Link
<ul style="list-style-type: none">– Constructed a full-stack debt management app using graph and 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.	
URL Shortener Web App — NodeJS, ExpressJS, MongoDB, EJS	Link
<ul style="list-style-type: none">– Created a URL shortener with modular Node.js architecture, reducing URL length by 80%.– Persisted URLs in MongoDB with activity logging for analytics.– Used EJS for dynamic rendering and built RESTful APIs for interaction.– Executed detailed link analytics and click tracking logic, capturing timestamp, ans referrer for every redirect.	

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, GFG, and Codeforces.

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).
- **Chegg Mentor:** Tutored Mathematics subjects on Chegg, maintaining a **4.8/5** average rating across **200+** question sessions.