DHRUV SINGLA

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EXPERIENCE

• **Janaagraha [🌐] [Certificate]** *July 2024 – October 2024*
Software Developer Intern Bangalore, India

◦ Developed frontend components for the **CityFinance.in** platform (*Ministry of Housing and Urban Affairs, Government of India*), enabling credible financial reporting for 4,000+ urban local bodies.

◦ Built responsive user authentication forms (login and registration) with validation and API integration, improving the onboarding flow for 10000+ users.

◦ Designed an interactive municipal dashboard using React and Chart.js to visualize revenue data, increasing data accessibility and enabling better financial insights.

◦ Engineered an interactive, filterable India map dashboard visualizing urban data availability.

EDUCATION

• **Indian Institute of Information Technology (IIIT), Pune** *August 2021 - May 2025*
*Bachelor of Technology in Computer Science and Engineering | **CGPA: 8.18/10*** Pune, India

• **Asian Public School** *March 2019 - March 2020*
*CBSE — Class 12 | **Percentage - 91*** Gurugram, India

• **Jindal Public School** *March 2017 - March 2018*
*HBSE — Class 10 | **Percentage - 96.6 (District Topper Gurugram)*** Gurugram, India

PROJECTS

• **BooksHive: E-book Library Platform** *January 2025 – April 2025*
Tools: React, CSS/Styled Components, Node.js, Express.js, MongoDB, JWT, TF-IDF, Cosine similarity [🎧]

◦ Implemented secure **JWT authentication** with bcrypt-encrypted passwords, role-based access control comprehensive validation on both frontend and backend to prevent unauthorized access.

◦ Assembled a **real-time chat system with Socket.IO** or instant student-teacher communication.

◦ Engineered a **hybrid book recommendation system** using content-based and item-based collaborative filtering, improving recommendation relevance on 1,000+ books.

◦ Integrated SendGrid to automate personalized book issue confirmation emails.

• **DevMinds: Personalized Coding Platform** *April 2024 – June 2024*
Tools: MERN Stack, Python-Shell, Fuze Js, JWT, Mongoose,Html,CSS, JavaScript [🎧 Live]

◦ Integrated a **fuzzy search** using Fuse.js to support partial matching,reducing failed searches by 40%.

◦ Built an **interactive sorting algorithm visualizer** using JavaScript, implementing 7+ algorithms including Selection Sort, Merge Sort, and Bubble Sort, with real-time animations.

◦ Designed a live coding workspace supporting real-time preview for HTML, CSS, and JavaScript.

◦ Assembled a **browser-based online IDE** with CodeMirror integration, allowing users to solve coding problems with real-time code execution and output display.

TECHNICAL SKILLS

• **MERN Stack:** React, Redux, Node, Express, Mongoose, REST APIs, Socket.io, GraphQL, SendGrid

• **Programming Languages:** JavaScript, C, C++, Java, Python

• **Database Systems & Tools:** MongoDB, SQL, Postman, Cypress, Git, GitHub, VS Code

• **Core CS Subjects:** Operating Systems, Computer Networks, OOPS, DBMS, Machine Learning

ACHIEVEMENTS

• Solved **1500+ DSA problems** on platforms like Codeforces, CodeChef , Leetcode and GeeksforGeeks.

• Ranked **1st in 10th grade HBSE board exam** in Gurugram district with a score of **96.6%**.

• Achieved **Knight** badge (Top 5.69% globally) on LeetCode, with a maximum contest rating of 1857.

• Secured **Expert** title on **Codeforces** with a peak rating of **1676** (top 5% globally).

• Ranked **1523rd worldwide** out of 35,000+ participants in **LeetCode Weekly Contest 416**.

• Scored in the **98th percentile** (Top 2% among 1,000,000+ students) in **JEE MAIN 2021**.