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

- **SmartBook: 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** for 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, reducing manual librarian effort by 60%.

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