DHYANENDRA TRIPATHI

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EDUCATION

International Institute of Information Technology, Naya Raipur | **Nov 2022 – Present**
BTech. - CGPA : 8.77/10 | *Raipur, Chhattisgarh*

ACHIEVEMENTS

- **Expert @Codeforces (1,732)** ✎, **5 Star @Codechef (2,011)** ✎, **Guardian @LeetCode (2,160)** ✎
- Achieved **Global Rank 140** in Codeforces Round 995 (Div. 3) and **Global Rank 882** in Round 982 (Div. 2)
- Achieved **Global Rank 26** in CodeChef Starters 155 (Div. 2)
- Achieved Solved **2500+ problems** on various platforms like Codeforces, Codechef, Atcoder, CSES and Leetcode.
- Ranked within top 1% of 30k+ Indians on Codeforces, top 1% of 20k+ on CodeChef, and top 2% of 50k+ global users on LeetCode
- **Meta Hacker Cup 2024**: Cleared Round 1 and achieved **Global Rank 2042** in Round 2 ☑

EXPERIENCE

Programming Pathshala — Instructor | **June 2025 – July 2025**

- Delivered 30+ sessions on algorithms, data structures, and competitive programming for a cohort of 60+ students.
- Ran 100+ hours of live coding covering complexity analysis and patterns (two pointers, sliding window, greedy, DP, graphs) with code reviews.
- Resolved 400+ learner queries via office hours and forum replies; debugged submissions and wrote step-by-step explanations.

takeUforward — Problem Setter Intern ✎ | **Feb 2025 – Apr 2025**

- Authored and curated 150+ DSA problems for the takeUforward Plus (TUF ✎) platform.
- Engineered execution-engine drivers for C++, Java, Python, and JavaScript to compile, run, and standardize error reporting.
- Designed comprehensive test suites emphasizing edge cases and constraints, improving problem accuracy by 30%.

PROJECTS

HireSim ☑ | React, Express, MongoDB, Node.js, Groq API, PDF-parse ⚙ | **July 2025 - Present**

- Engineered an AI-driven mock interview platform enabling real-time natural language question generation and contextual follow-ups using the Groq LLM API, enhancing interview realism.
- Developed a full-stack web application using React, Node.js, and Express, integrating speech-to-text and text-to-speech APIs for an interactive, voice-enabled interview experience.
- Implemented resume parsing via Multer and PDF-parse for automated candidate data extraction, improving processing speed and accuracy.

CodeArena ☑ | React, Express, MongoDB, Node.js, Docker, AWS - S3, AWS - EC2 ⚙ | **Sep 2024 - Jan 2025**

- Developed a platform for solving coding challenges and creating custom problems, with a blogging feature for user interaction.
- Utilized MongoDB, Express.js, React, and Docker to enable secure C++ and Python code execution in isolated containerized environments.
- Integrated AWS S3 for secure profile image storage and deployed full-stack application on AWS EC2 instances with auto-scaling configuration for optimized performance.

Student Database Manager | Python, JSON, Tkinter ⚙ | **May 2023 – July 2023**

- Implemented a Python desktop app with an **OOP modular architecture** and JSON backend to manage 500+ student records, reducing data-retrieval time by **75%** vs manual spreadsheets.
- Integrated PDF report generation (FPDF), attendance tracking for 20+ classes, and matplotlib visualizations, enabling **90%** faster administrative reporting and decision-making.
- Built an intuitive CustomTkinter GUI with 15+ automated admin functions, reducing task completion time by **60%** and improving user adoption to **95%** during testing.

TECHNICAL SKILLS

Languages: Python, C++, C, Java, JavaScript/TypeScript, SQL

Frameworks/Technologies: Node.js, Express.js, React, MongoDB, Docker (Containers), AWS S3, AWS EC2, Vercel, Linux, CI/CD (GitHub Actions/GitLab CI)

CS Fundamentals & Tools: Data Structures & Algorithms, OOP, DBMS, ML, DL, Operating Systems (OS), Computer Networks, REST API, Web Development, Git, GitHub, VS Code, IntelliJ IDEA, Android Studio, Vim, Overleaf, Figma