Akshat Aggarwal

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EDUCATION

National Institute of Technology, Hamirpur — Hamirpur
Bachelor of Technology, Computer Science & Enginnering, *CGPA: 9.69* — Dec 2020 - Present

The Scholars' Home — Paonta Sahib
Higher Secondary (12th), *Percentage: 97* — Apr 2019 - Mar 2020

WORK EXPERIENCE

Coding Ninjas — Remote
Technical Content Writer Intern — Mar 2023 - Jun 2023
- Created high-quality content covering a wide range of programming languages, frameworks, and tools.
- Authored and edited technical blog posts, tutorials, etc., aimed at helping students learn and improve.

Coding Shuttle — Remote
Problem Setter — Feb 2023 - Mar 2023
- Generated test cases and optimal solutions for problems based on Data Structures and Algorithms.

VOLUNTEER EXPERIENCE

CSEC NITH — NIT Hamirpur
Coordinator — Apr 2021 - Present
- Designed problems and wrote editorials for monthly programming contest, Heuristics.
- Volunteered on 'Software Freedom Day', promoted FOSS and installed linux distributions on 50+ PCs.
- Conducted programming meets on various topics.

CodeChef NITH Chapter — NIT Hamirpur
Chapter Leader — Jul 2021 - Jan 2022
- Organized workshops on topics 'Introduction to Competitive Programming' and 'STL' (100+ attendees each).
- Conducted numerous programming contests like 'Regular Contest 1', 'CP Liftoff' etc (50+ participants each).

PROJECTS

RFID Attendance System (*Node.js, Express, MongoDB, React, Arduino*) — Github
- Developed an attendance tracking system that allows users to register their attendance by scanning RFID cards using an RFID reader.
- Established seamless serial communication between the Arduino board and Node.js.

Paint Application (*C++, WinBGIm Graphics Library*) — Github
- Created a comprehensive paint application with **user-friendly graphical interface**.
- **Features**: Save as JPEG file, Color Palette, Size options, etc.
- **Tools**: Brush, Flood Fill, Rectangle, Circle, Line, etc.

Sort Visualizer (*p5.js, CSS3, HTML5*) — Live Preview | Github
- Developed a web application to visualize various sorting algorithms.
- Implemented Interactive UI features, including the selection of sorting algorithms and adjustable parameters for visualization size and speed.

React Wordle (*React, CSS3*) — Live Preview | Github
- Created a web-based word-guessing game where users can guess a hidden word by entering their guesses.
- Implemented animations and media queries to enhance the user experience.

ACHIEVEMENTS

- **6 Star** (Max Rating - 2211) on Codechef (**380th out of 200K** Indian users).
- **Expert** (Max Rating - 1671) on Codeforces.
- Top **1.9%** on Leetcode (Max Rating - 2079).
- Ranked **30th** globally out of 2900+ participants in **March Cook-Off 2022** Div-2.
- Ranked **143rd** globally (39th in India) out of 18K+ participants in **Codeforces Round 820**.
- Ranked **318th** out of 12K+ participants in **Google Kickstart** 2022 Round G.

SKILLS

Languages: C/C++, Python, Javascript, Go **Frameworks:** React, Node, Express
Databases: MySQL, MongoDB **Tools:** Git, GNU/Linux
Others: Bash, Markdown, LaTeX, Data Structures and Algorithms

COURSEWORK

Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Computer Organization & Architecture, Database Management Systems, Compiler Design, Distributed Systems, Computer Networks