

AKSHAT AGGARWAL

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EDUCATION

National Institute of Technology, Hamirpur

Bachelor of Technology, Computer Science & Engineering, *CGPA: 9.69*

Hamirpur

Dec 2020 - Present

The Scholars' Home

Higher Secondary (12th), *Percentage: 97*

Paonta Sahib

Apr 2019 - Mar 2020

WORK EXPERIENCE

Coding Ninjas

Technical Content Writer Intern

Remote

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

Problem Setter

Remote

Feb 2023 - Mar 2023

- Generated test cases and optimal solutions for problems based on Data Structures and Algorithms.

VOLUNTEER EXPERIENCE

CSEC NITH

Coordinator

NIT Hamirpur

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

Chapter Leader

NIT Hamirpur

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

Databases: MySQL, MongoDB

Others: Bash, Markdown, \LaTeX , Data Structures and Algorithms

Frameworks: React, Node, Express

Tools: Git, GNU/Linux

COURSEWORK

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