

# HUSSANPREET SONI

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## EDUCATION

- **Banasthali Vidyapith University | July 2023 - May 2027**
  - **Bachelor of Technology in Computer Science (CGPA: 8.23)**
- **Kendriya Vidyalaya Kishtwar, J&K | April 2021 - Mar 2023**
  - **Senior Secondary (Grade: 86%)**

## PROJECTS

### SortViz – Interactive Visualization Tool

- Developed a dynamic, web-based visualization tool using **JavaScript**, **HTML**, and **CSS** to demystify complex sorting algorithms for technical and non-technical users.
- Conducted user research with 15+ learners to inform the design, resulting in features like adjustable array size and animation speed for enhanced flexibility.

### TimeSlice - CPU Scheduling Visualizer |

*Technologies: JavaScript, Data Structures, Git/GitHub*

- Engineered an interactive OS simulator to visualize CPU scheduling algorithms (FCFS, SJF, Round Robin), processing 10+ custom process scenarios.
- Generated dynamic Gantt charts and computed metrics like average waiting time and turnaround time to provide clear insights into algorithm performance.

**Tech Stack:** JavaScript, HTML5, CSS3, Git/GitHub

## EXPERIENCE

### 1. GirlScript Summer of Code (GSSoC) 2025 — Open Source Contributor

- Collaborated with a global open-source team, giving and receiving feedback through **code reviews** on GitHub to improve frontend layouts and usability.
- Enhanced user accessibility by proposing, implementing, and **shipping** a scroll-down navigation button, proactively incorporating feedback from project mentors.
- Quickly learned the project's existing codebase and contribution guidelines, successfully merging pull requests that improved UI responsiveness.

## TECHNICAL SKILLS

- **Languages:** C++, C, JavaScript, HTML/CSS, SQL, Java(basic)
- **Concepts:** Object-Oriented Design (OOP), Data Structures & Algorithms (DSA)
- **Developer Tools:** Git, GitHub, VS Code
- **Databases & Data:** MySQL, Tableau
- **Soft Skills:** Collaboration, Leadership, Problem-Solving, Strong Communication

## ACHIEVEMENTS AND CERTIFICATIONS

- **Member, Women Techmakers** – Recognized as part of Google’s global community supporting women in technology.
- **Google Analytics Individual Qualification (GAIQ)**
- **Microsoft Certified:** Azure Data Fundamentals
- Selected among Top **25** out of 269 ideas in *Idea Carnival 2025* for the innovative project “Energy from Motion.”