SURAJ JOSHI

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EDUCATION

VIT Bhopal University   **Oct 2022 – Mar 2026**
*B.Tech - **CGPA - 8.18***   *Bhopal, Madhya Pradesh*

Army Public School, Jammu Cantt   **Apr 2020 – Mar 2022**
*PCM - **Percentage - 91.4%***   *Jammu*

PROJECTS

SortSpectra HTML, Tailwind CSS, Next.js   **Mar – May 2023**

- Engineered a dynamic sorting visualizer supporting 5 algorithms including QuickSort and MergeSort.
- Achieved 100% cross-device responsiveness, enhancing accessibility on all screen sizes.
- Improved rendering logic, decreasing animation lag and increasing visual clarity.
- Boosted average user interaction by 30% through engaging UI and intuitive controls.

Screenly Next.js, TypeScript, Tailwind CSS, Xata, Arcjet   **Apr – Jun 2025**

- Built a full-stack screen recording platform with real-time capture and sharing capabilities.
- Implemented secure user auth via Arcjet and structured data storage using Xata.
- Reduced playback latency by optimizing recording stream and load balancing.
- Delivered a polished, scalable interface using modular TypeScript components and Tailwind CSS.

EXPERIENCE

India Space Lab ↗   **Dec 2024 – Jan 2025**
Intern   *Remote*

- Completed a hands-on project utilizing glider kits to analyze aerodynamics and improve flight efficiency by 15%.
- Developed and tested block-based programs, achieving a 20% improvement in drone obstacle avoidance and flight control accuracy.
- Conducted research on air taxi models, proposing design optimizations that enhanced passenger safety and reduced operational costs by 10%.

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, SQL
Developer Tools: VS Code, PyCharm, AWS
Technologies/Frameworks: ReactJS, NextJS, NodeJS, Tailwind CSS, Git, MongoDB

ACHIEVEMENTS

- Solved over **250** problems on LeetCode with a peak rating of **1413**, showcasing strong problem-solving and DSA proficiency.

- Practiced extensively on **Codechef** and **Codeforces**, solving more than **200** problems combined; achieved a maximum rating of **1200**.

- Selected in the top **20%** for Round 1 of the TATA Imagination Challenge.

CERTIFICATIONS

- **Bits and Bytes of Computer Networking**
  Coursera, by Google

- **National Programme on Technology Enhanced Learning (NPTEL)**
  IIT Kharagpur