

Suraj Kumar

BCA Student (2023–2026) — Frontend Developer — DSA (C++)

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PROFILE

Final-year BCA student and active learner with strong foundations in Data Structures (C++) and frontend development. Experienced in working with large open-source Android codebases and advanced Git workflows. Seeking internship opportunities to apply problem-solving skills and grow within a professional engineering environment.

TECHNICAL SKILLS

- **Languages:** C++, JavaScript
- **Frontend:** HTML5, CSS3, SCSS
- **Core Concepts:** Data Structures (Arrays, 2D Arrays, Matrix Operations), DOM Manipulation, Algorithmic Problem Solving
- **Version Control:** Git, GitHub (Rebasing, Cherry-picking, Conflict Resolution)
- **Tools:** VS Code, Linux Environment

PROJECTS

- **DOM-Based Rich Text Editor (Figma to Web Implementation)**
Live: dom-based-editor.vercel.app
Repo: github.com/ImSurajx/dom-based-editor
Technologies: HTML, CSS, JavaScript
 - Converted Figma design into a fully structured layout architecture.
 - Built interactive rich-text editing functionality using core DOM manipulation without external libraries.
 - Implemented custom toolbar controls for text formatting and dynamic content updates.
 - Managed real-time state changes and structured modular JavaScript logic for maintainability.

OPEN-SOURCE EXPERIENCE

- **Android Custom ROM Contributor (Redmi Note 7 - Lavender)** 6–8 Months
 - Maintained unofficial Pixel-based ROM ("Pixel Stable") built on Pixel Experience source for real community users.
 - Worked with large Android codebases including device trees, vendor configurations, kernel integration, and Linux-based build systems.
 - Practiced advanced Git workflows such as rebasing, cherry-picking, and resolving complex merge conflicts.
 - Debugged build failures and optimized configuration issues within CI/CD environments.
 - Successfully raised highest community crowdfunding contribution to restore development hardware.
 - Selected as a member of the ROM Builder organization (150+ contributors) after multiple evaluation attempts.

EDUCATION

- **Indira Gandhi National Open University (IGNOU)** 2023 – 2026
Bachelor of Computer Applications (BCA)