

# 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](https://dom-based-editor.vercel.app)

Repo: [github.com/ImSurajx/dom-based-editor](https://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)