







Sidharth Kumar Singh

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Computer Science Undergraduate

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EDUCATION




- **Indian Institute of Information Technology, Lucknow**
B.Tech in Computer Science - CGPA: 8.76/10

Aug 2023 - May 2027

EXPERIENCE






- **GraphiteEditor**  | **Rust, WebAssembly, TypeScript** Open-Source Contributor
 - Added comprehensive vector path closing functionality via Ctrl+J shortcut, enabling automatic endpoint connection for 2 selected points or 2-endpoint subpaths across different layers
 - Developed robust layer merging system that handles 3 path-type combinations (spline-spline, path-spline, path-path) while maintaining geometric properties and node graph structures.
 - Authored and integrated over 10 automated tests into the GraphiteEditor codebase, improving reliability and preventing regressions across key vector editing features.

PROJECTS

- **Affinity**  | **React, Rust, PostgreSQL, Kubernetes, Docker, Jenkins, Socket.IO, Redis, gRPC**
 - **Overview:** Architected a full-stack social hub connecting 100+ users with shared interests, leveraging React for a responsive front-end and Rust for high-performance back-end tasks, reducing data processing time by 30%.
 - Designed a scalable chat system with microservices communicating via gRPC, enabling modular architecture and efficient data retrieval from PostgreSQL and ScyllaDB through dedicated services, reducing average RPC latency to 30% of equivalent REST calls.
 - Supports deployment with Kubernetes and Helm for orchestration and rolling updates, achieving 99.9% uptime in a scalable architecture supporting concurrent user interactions and real-time analytics.
 - Crafted a powerful and customizable Discord bot  designed for seamless interaction and automation within the Affinity Discord server, featuring 6 core modules.
- **SoundScore**  | **Solana, Next.js, PhantomWallet, Anchor, TypeScript, Tailwind**
 - **Overview:** Launched SoundScore: a paid music evaluation platform with 4 integrated modules—Global Ratings, Listener Rewards, Smart-Contract Payments, and Auctions—enabling artists to commission song evaluations and listeners to earn incentives for their feedback.
 - Leveraged Solana, PhantomWallet, and Anchor to manage payments and reviews, ensuring fast transactions with up to 50% lower fees than traditional payment systems.
 - Developed a responsive and intuitive interface using Next.js, TypeScript, and Tailwind. Optimized design and performance reduced load times by 40%, ensuring seamless interactions for artists and listeners.

ACHIEVEMENTS

- Completed **Hacktoberfest 2024** with 4 PRs merged in the **Hyperswitch** project.
- Won the 1st prize in the **Best AI Implementation** track at UP-AISpire hackathon.
- Rated as **Specialist on Codeforces**.
- Achieved a **3-star** rating on CodeChef (**max rating: 1712**).
- Awarded **Shubhra Khar Linux Foundation Scholarship 2024**.
- Secured **1st prize** in Linux Ricing contest initiated by Equinox, the techfest of IIIT, Lucknow.

Contributions 
Project Link 
cprofile 
cprofile 
Link 

SKILLS & OTHERS

- **Languages:** Rust, JavaScript, Python, C++, Java, TypeScript, SQL, Bash
- **Frontend:** React, NextJS, Tailwind, Accernity UI, Bootstrap, Shadcn, Ratatui
- **Backend:** Express.js, Axum, SpringBoot
- **Database:** MongoDB, MySQL, PostgreSQL, Firebase
- **Cloud & DevOps:** AWS, Docker, Kubernetes, Git, Linux, Jenkins, Nginx, Github Actions
- **Soft Skills:** Teamwork, Communication, Initiative, Leadership
- **Relevant Coursework:** Operating System, Compiler Design, Database Management System, Object Oriented Programming, Data Structures

POSITIONS OF RESPONSIBILITY

- **Member - Axios FOSS Wing, IIIT Lucknow** | Aug 2024 - Present
 - Took the lead in organizing logistics and running interactive, hands-on sessions on open-source tools and contributing to FOSS. Engaged with over 150 students, sparking interest in open-source and helping build a more active, enthusiastic community around it.