

Kundan Singh

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SUMMARY

- Final-year Electronics Engineering student with strong foundation in software development. Proficient in C++ programming and cross-platform mobile application development using Flutter. Experience building scalable systems with REST APIs and cloud integration. Recognized in national-level technical competitions including Smart India Hackathon and C2S challenge.

PROFESSIONAL EXPERIENCE

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| SSPL, DRDO (Defence Research & Development Organisation) | Delhi, India |
| • <i>Trainee (Internship)</i> | <i>Mar 2025- May 2025</i> |
| ◦ Networked Systems Optimization: Designed video amplifier circuits with 15% latency reduction, applying signal processing algorithms to improve networked communication efficiency. | |
| ◦ Embedded Systems Development: Optimized system performance by 20% through hardware/software co-design, demonstrating strong debugging skills. | |
| DigitalDose | Remote |
| • <i>Jr. Flutter Developer (Internship)</i> | <i>Oct 2024 - Jan 2025</i> |
| ◦ Scalable Cross-Platform Mobile App: Developed a cross-platform mobile app using Flutter and Firebase backend, leveraging GetX state management and OOP principles for maintainable, modular, and scalable code. | |
| ◦ Performance Optimization: Reduced load time by 30% through efficient data synchronization and API optimization. | |
| GirlScript Summer of Code | Remote |
| • <i>Contributor (Open Source)</i> | <i>Nov 2024 - Dec 2024</i> |
| ◦ Code Quality Improvement: Enhanced 10+ open source projects through debugging, testing, and improvements. | |

PROJECTS

- AstroJet (Remote Cursor-Based 2D Space Shooter):** Built a 2D arcade game using Flutter and Flame with remote cursor control. Features include laser attacks (3 types), bomb drops for asteroid destruction, and shield mechanics for jet protection. **Tech:** Flutter, Flame(Game Engine), Vercel [Github]
- VoteNet (Secure Voting Platform):** Created real-time voting verification system using QR-code and Aadhaar authentication, achieving 75% faster processing through Firebase Cloud integration. **Tech:** Flutter, Firebase, QR Code Auth, Firebase Studio [Github]
- AI Assist (Networked AI Services Provider):** Implemented a multi-functional app offering an AI Chat Bot, image generator, and language translator using Google's Gemini API. Achieved 95% translation accuracy and demonstrated seamless API integration and user-friendly UI design. **Tech:** Flutter, Cloud API, Network Communication

TECHNICAL SKILLS

- Programming Languages:** C++(Proficient), JavaScript, Dart, Python
- Frameworks & Libraries:** Flutter, Node.js, Express.js
- Core Concepts:** Object-Oriented Programming(OOP), Computer Networks, Operating Systems, System Design(LLD)
- Database Management:** Cloud Firestore, MongoDB
- Tools & Platforms:** Version Control(Git), GitHub, Postman, VS Code, Android Studio

EDUCATION

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|--|---------------------------|
| Rajkiya Engineering College Sonbhadra | Sonbhadra, India |
| • <i>Bachelor of Technology - Electronics Engineering; CGPA: 7.78/10</i> | <i>Nov 2022 - Present</i> |
| <i>Relevant Courses: Data Structures & Algorithms, Computer Networks, Operating Systems, Python Programming, Digital System Design</i> | |

ACHIEVEMENTS

- TCS CodeVita:** Placed **AIR 5100** in the global coding challenge.
- Chips to Startup:** Achieved **AIR 10** in **Digital India RISC-V (DIR-V) Grand Challenge**.
- Tricolour Code Fest:** Attained **AIR 117** in the national-level programming competition.
- IEEE Research Paper:** Published a paper titled "*IoT-Based Malaria Website Model Using Digital Binary Code: A Mathematical Study*" in IEEE, focusing on malaria case tracking and alert automation.

LEADERSHIP

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| Head Student Representative, Training & Placement Cell | REC Sonbhadra |
| • <i>Organized 15+ technical events with 350+ participants</i> | <i>2023-Present</i> |
| Vice-Chair, IEEE Student Branch | REC Sonbhadra |
| • <i>Led 5 IEEE initiatives impacting 150+ students</i> | <i>2024-Present</i> |
| Co-Lead, Google Developer Group On Campus | REC Sonbhadra |
| • <i>Conducted 10+ workshops on networking and cloud technologies</i> | <i>2024-2025</i> |

CODING PROFILES

- LeetCode:** Consistently solves medium & hard problems (1440 contest rating)
- GeeksforGeeks:** Ranked among in top 50% of platform users