

# Kundan Singh

[LinkedIn](#)  
[GitHub](#)  
[Portfolio](#)

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## EDUCATION

- Rajkiya Engineering College Sonbhadra** Sonbhadra, India  
*Bachelor of Technology - Electronics Engineering; CGPA: 7.78/10* Nov, 2022 - June, 2026  
*Relevant Courses: Data Structures & Algorithms, Computer Networks, Operating Systems, Python Programming, Digital System Design*

## TECHNICAL SKILLS

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

## PROFESSIONAL EXPERIENCE

- SSPL, DRDO (Defence Research & Development Organisation)** Delhi, India  
*Research Intern* Mar, 2025 - May, 2025
  - 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.
  - Simulation & Testing:** Validated circuit behavior using **LTSpice** and supported real-world implementation using high-speed op-amps.
- DigitalDose** Remote  
*Jr. Flutter Developer (Internship)* Oct, 2024 - Jan, 2025
  - 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.
  - Authentication & UI:** Implemented secure authentication (**OTP & credentials**) with clean, user-friendly UI.

## 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, shield mechanics for **jet protection**, and **real-time sound effects** with **background music** to enhance the gameplay experience.  
**Tech:** Flutter, Flame(Game Engine), Vercel [\[LINK\]](#) [GitHub](#)
- VoteNet (Secure Voting Platform):** Created a real-time voting verification system using **QR-code and Aadhaar authentication**, achieving **75% faster processing** through **Firebase Cloud integration**. Implemented **role-based officer access control** to ensure secure and regulated polling operations.  
**Tech:** Flutter, Firebase, QR Code Auth, Firebase Studio [\[GitHub\]](#)
- CampusCare (Digital Mental Health Platform):** Developed a digital mental health support platform for college students with secure, real-time mobile access. Integrated **AI-based screening and chatbot support** (PHQ-9, GAD-7, GHQ) on a scalable cloud platform. Enabled **secure role-based access** and real-time communication for students and counselors.  
**Tech:** Flutter, REST APIs, NLP, Django [\[GitHub\]](#)

## ACHIEVEMENTS

- TCS CodeVita:** Secured **Rank 312** in Round 2 & **Rank 5100** in Round 1 of the global coding challenge.
- Chips to Startup:** Achieved **AIR 10** in the **Digital India RISC-V (DIR-V) Grand Challenge**.
- Tricolour CodeFest:** Attained **AIR 117** in the national-level programming competition.
- GirlScript Summer of Code (GSSoC):** Selected as an **Open Source Contributor** and successfully enhanced **10+ projects** through bug fixes, code optimization, and feature improvements.
- 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

- Head Student Representative, Training & Placement Cell** REC Sonbhadra  
*Organized 15+ technical events with 350+ participants* 2023 - Present
- Vice-Chair, IEEE Student Branch** REC Sonbhadra  
*Led 5 IEEE initiatives impacting 150+ students* Nov, 2024 - Jan, 2026
- Co-Lead, Google Developer Group On Campus** REC Sonbhadra  
*Conducted 10+ workshops on networking and cloud technologies* Sept, 2024 - Oct, 2025

## CODING PROFILES

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