

Kundan Singh

[LinkedIn](#)

[GitHub](#)

[Portfolio](#)

Email: kundansingh170104@gmail.com

Mobile: +91-8303926492

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