

# SPARSH GOYAL

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## SUMMARY

Computer Science sophomore with hands-on experience building scalable backend systems, cloud-native applications on GCP, and security-focused tooling. Proficient in Node.js, React, MongoDB, and RESTful API design. Seeking a Software Engineering Internship to contribute to high-impact engineering teams.

## TECHNICAL SKILLS

**Languages:** C++, JavaScript, SQL

**Frameworks & Libraries:** React, Node.js, Express.js, TypeScript

**Databases & Cloud:** MongoDB, MySQL, PostgreSQL, Firebase, Google Cloud Platform (GCP)

**Tools & APIs:** Git, GitHub, Docker, Postman, Linux, RESTful APIs, JWT, CI/CD Pipelines, VS Code

**Core CS:** Data Structures & Algorithms, OOP, Operating Systems, DBMS, System Design

## EXPERIENCE

**Google Developer Groups (GDG) On Campus** — Technical Lead Sep 2025 – Apr 2026

- Engineered backend services with Node.js and Express, integrating Firebase Auth and Firestore for real-time data across all deployed applications.
- Led a team of 8 developers, organizing **10+ technical** workshops and hackathons that engaged **500+ students** in hands-on cloud and software engineering projects.

## PROJECTS

**Scalable URL Shortening Service** | [GitHub](#) May 2026 – Jun 2026

*Node.js · Express.js · MongoDB · JWT · REST APIs · Postman · Git*

- Designed a production-ready URL shortening service with **JWT authentication**, custom aliases, URL expiration, and **8+ RESTful API** endpoints for management and analytics.
- Optimized redirect performance with **MongoDB indexing** and query optimization, reducing average latency by **~90% to under 20 ms** while supporting **100K+** stored URLs.
- Validated reliability across **50+ Postman test** scenarios covering authentication, URL generation, redirection, analytics, and error-handling edge cases.

**ZeroTrace Data Wiping System** | [GitHub](#) Sep 2025 – Dec 2025

*Flutter · Dart · C++ · Android SDK · TypeScript · NIST 800-88*

- 1st Prize** Winner– Devfolio Technocrats Hackathon 2025 (National Level)
- Built a secure data wiping system aligned with **NIST 800-88 standards**, processing **1,000+ files** via automated multi-pass overwrite workflows (**3-pass and 7-pass**).
- Implemented **cryptographic** verification checks achieving **99%+ wipe validation**, ensuring forensic-level data destruction during all test cycles. A feature to recycle waste and take benefits of it.
- Designed cross-platform destruction algorithms in C++ eliminating zero-slack space leakage across both Windows and Android storage architectures.

## EDUCATION

**Poornima University** — Jaipur, Rajasthan Expected May 2028

B.Tech in Computer Science • CGPA: **8.9 / 10** • 2nd Year (2026)

**Relevant Coursework:** *Data Structures & Algorithms, OOP, Operating Systems, DBMS, Software Engineering*

## ACHIEVEMENTS

- 1st Prize, Technocrats Hackathon 2025** — delivered a full-stack project under 24 hours, ranking 1st among all competing teams.
- 250+ coding problems solved** on LeetCode, GeeksforGeeks, and HackerRank — covering arrays, trees, dynamic programming, and strings (includes 40+ medium/hard problems).
- Finalist ODOO X SPIT** Hackathon 2025 and **ODOO X GCET** Hackathon 2026.