

# SANCHIT GUPTA

📍 New Delhi, India    📞 +91 8384062087    ✉ [Mail](#)    [in](#) [LinkedIn](#)    [GitHub](#)    🌐 [Portfolio](#)

## Education

### Guru Gobind Singh Indraprastha University, Delhi

*B.Tech in Electronics and Communications Engineering*

2021 – present

CGPA: 8.228 (Ongoing)

### Lovely Public Senior Secondary School, Delhi

*Senior Secondary Education (CBSE)*

2017-2021

## Technical Skills

**Languages:** Python, C++, JavaScript, SQL, HTML, CSS  
**Developer Tools:** Git, GitHub Actions, Postman, Docker  
**Technologies/Frameworks:** Flask, FastAPI, Django, Pytest, Celery  
**Databases:** SQLite, PostgreSQL, Alembic, Redis  
**Deployment:** Render, Railway

## Projects

### Resource Garbage Management System | *Python, FastAPI, PostgreSQL, Redis, Docker, Celery, Railway*

[Link](#)

- Developed async file expiration using Redis Streams/TTL, cutting stale storage 40%
- Implemented JWT auth with Redis sessions (500+ users, <100ms latency)
- Built admin controls with audit logging/dynamic TTL, boosting efficiency 30%
- Automated migrations via Alembic; containerized with Docker Compose
- Deployed on Railway (auto-scaling, 99.9% uptime, 1K+ reqs/day)
- Integrated SMTP alerts via Redis Sorted Sets, reducing latency 60% with Celery

### Multi-Tenant SaaS Platform | *Python, FastAPI, PostgreSQL, Docker, Alembic, Render, Google OAuth2*

[Link](#)

- Engineered secure multi-tenant system using PostgreSQL schemas (50+ orgs, zero leaks)
- Implemented JWT/Google OAuth2 with RBAC, reducing auth setup 50%
- Created admin dashboard with audit logs, cutting support requests 25%
- Automated Alembic migrations; Docker deployment on Render slashed setup 70%
- Enhanced security with SMTP verification/SSL-TLS (90% compliance improvement)

### Social Media API | *Python, FastAPI, PostgreSQL, Alembic, Docker, GitHub Actions, Pytest, Render*

[Link](#)

- Developed REST API with CRUD operations, search, and pagination features
- Implemented JWT authentication and PostgreSQL database with Alembic integration
- Containerized application using Docker and achieved 40+ test cases with Pytest
- Configured CI/CD pipeline using GitHub Actions for automated deployments

### Authentication Service | *Python, FastAPI, JWT, Google OAuth API, SMTP, PostgreSQL*

- Created email verification system with SMTP integration and JWT tokens
- Implemented password hashing using bcrypt for secure credential storage
- Integrated Google OAuth2 for third-party authentication flows

## Certificates & Achievements

- **Postman Student Expert** (Postman) 2025
- **Introduction to Cybersecurity** (Cisco) 2025

## Extracurricular

- Volunteered for National Service Scheme of the University for 2023 - 24 session, assisted in organizing several events and collaborated with various NGOs.
- Built a prototype seed-sowing robot using Arduino, achieving a 40% reduction in manual labor for small-scale farming.
- **LoreHub** — Authored a technical article on Python API design; drafting tutorials on FastAPI optimization and REST API best practices.