SANCHIT GUPTA

New Delhi, India • +91 8384062087 • [Mail](#) • [LinkedIn](#) • [GitHub](#) • [Portfolio](#)

Education

Guru Gobind Singh Indraprastha University, Delhi **2021 – present**
B.Tech in Electronics and Communications Engineering *CGPA: 8.228 (Ongoing)*

Lovely Public Senior Secondary School, Delhi **2017-2021**
Senior Secondary Education (CBSE)

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

Extracurricular

- Volunteered for National Service Scheme of the University for 2023 - 24 session, assisted in organizing several events and collaborated with various NGOs.