

ABHAY KUMAR SHARMA

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PROFESSIONAL SUMMARY

Aspiring Computer Science Engineer with strong foundations in full-stack development, cloud computing, and DevOps. Proven track record of building secure, scalable microservices and cloud-native architectures using FastAPI, Python, and Docker. Passionate problem solver and competitive coder eager to contribute to high-impact software engineering teams.

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, HTML, CSS
Backend & Frameworks: FastAPI, Flask, RESTful APIs, JWT Authentication
Frontend Technologies: React, Tailwind CSS
Databases & Storage: PostgreSQL, Redis, MinIO (Object Storage), SQLite
DevOps & Cloud: Docker, Docker Compose, Google Cloud Platform (GCP) Fundamentals Developer
Tools: Git, GitHub, Postman, Data Analytics (Data Cleaning & Visualization)

TECHNICAL PROJECTS

GateFlow – Cloud API Gateway | *React, FastAPI, Redis, Docker, JWT, HTTPX, Tailwind CSS*

- Engineered a cloud-native API Gateway featuring JWT authentication and secure request routing to protect backend endpoints.
- Optimized traffic orchestration using Redis-powered rate limiting to mitigate DoS vulnerabilities and manage bandwidth.
- Architected a React monitoring dashboard with real-time health checks, analytics pipelines, and interactive testing environments.
- Containerized the microservices topology via Docker Compose, enabling unified deployment and seamless scaling of all nodes.

StoreSphere – Secure File Storage & Sharing Platform | *React, FastAPI, PostgreSQL, Redis, Docker, JWT, MinIO*

- Developed a multi-tenant file storage platform using RBAC schemas and stateless JWT session management.
- Integrated MinIO object storage to handle multi-format file uploads, downloads, and secure resource sharing.
- Designed a normalized PostgreSQL database optimized for fast file metadata lookups and tenant isolation.
- Containerized the stack via Docker Compose, streamlining deployment across React, FastAPI, and storage modules.

Student Study Planner & Productivity Tracker | *Python, Flask, SQLite, HTML, CSS*

- Built a full-stack academic workflow system for programmatic schedule organization and productivity benchmarking.
- Programmed robust CRUD services using SQLite to efficiently persist tasks, schedules, and timeline logs.
- Designed an intuitive Flask-templated frontend to minimize layout overhead and improve dashboard navigation.

EDUCATION

New Horizon College of Engineering	Bangalore, India
<i>Bachelor of Technology in Computer Science and Engineering</i>	03/2023 – 07/2027
Rani Laxmi Bai Memorial Sr. Sec. School	Lucknow, India
<i>Class XII (CBSE) – Aggregate: 76.4%</i>	03/2022
Rani Laxmi Bai Memorial Sr. Sec. School	Lucknow, India
<i>Class X (CBSE) – Aggregate: 84.6%</i>	03/2020

CERTIFICATIONS

Introduction to AI and Machine Learning on Google Cloud – Google Cloud — Coursera	06/2026
Cloud Computing and Distributed System – NPTEL	01/2026 – 03/2026
Data Analytics Job Simulation – Deloitte (Forage)	09/2025

ACHIEVEMENTS & ACTIVITIES

First Place Winner – College Team Coding Competition

- Secured 1st place out of multiple competing technical squads during an intensive collaborative programming and algorithmic development contest held at college.

Hackathon Competitor – Smart India Hackathon & BMS College of Engineering

- Selected to represent the academic cohort in engineering innovative technical product solutions within high-intensity development constraints across regional and institutional engineering events.