

Shubhi Gupta

Bachelor of Technology

KIET Group of Institutions, Ghaziabad

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[GitHub](#)

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EDUCATION

Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence)

2023–2027

KIET Group of Institutions

CGPA: 8.22

Intermediate Schooling

2021–2022

Aligarh Muslim University

Percentage: 93.5

High School (10th)

2019–2020

Aligarh Muslim University

Percentage: 97.8

TECHNICAL PROJECTS

Distributed Video Processing Platform

Dec 2025 – Feb 2026

Production-style distributed task queue for async video processing.

- Engineered a distributed task queue architecture decoupling video uploads from background processing, preventing server overload under concurrent load.
- Implemented Redis-backed job scheduling with multiple concurrent worker nodes processing jobs independently.
- Built fault-tolerant retry mechanism with exponential backoff for failed jobs, ensuring zero job loss.
- Developed real-time job status tracking with timestamps (queued, processing, completed, failed) via REST API.
- Designed horizontal worker scaling pattern — additional workers can be spun up to handle increased load without system changes.

AI-Based Resume Matcher System

Dec 2025 - Feb 2026

A C++ based system that analyzes resumes and matches them with job profiles using skill-based scoring.

- Developed a Resume Matcher application to evaluate candidate resumes against job descriptions.
- Implemented skill extraction and keyword matching using STL (map, set, vector) in C++.
- Designed modular architecture with classes like Candidate, Resume, Job, and JobMatcher.
- Integrated file handling system to read job configurations and resume data from text files.
- Built using C++, OOP principles, CMake, and REST API server integration.

Full-Stack Restaurant Web Application

Dec 2024 - Apr 2025

A full-stack web application with user authentication, session management, and table reservation system.

- Implemented secure user authentication with login and sign-up functionality.
- Built table reservation system with real-time availability and booking confirmation.
- Technology Used: HTML, CSS, Bootstrap.

TECHNICAL SKILLS

Languages: C++, C, JavaScript

Core Skills: Distributed Systems, Data Structures & Algorithms, OOP, STL, REST APIs

Frontend: HTML, CSS, Javascript, React

Tools: Git, GitHub, VS Code, Redis

Database: MySQL, PostgreSQL

Coursework: Data Structures, Operating Systems

INTERNSHIPS AND CERTIFICATIONS

Palo Alto Networks Certified Network Security Administrator (PCNSA)

Palo Alto Networks, 2024

AWS Certified Cloud Practitioner [View Certificate](#)

Amazon Web Services, 2025

POSITION OF RESPONSIBILITY

Club Member, Vpaksh

2023–Present

KIET Dramatics Society

- Winner of EPOQUE and Prastuti events (2023).
- Secured 1st Prize in Skit and Nukkad competitions at IIT Jodhpur and IIT Roorkee.
- Managed audience engagement for performances, gathering 300+ viewers.
- Raised over Rs. 20,000 through prize money and event activities.