

GAURAV KUMAR

Software Engineer (Python)

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PROFESSIONAL SUMMARY

Software engineer with experience building backend systems, data-driven applications, and automation pipelines using Python. Skilled in designing APIs, handling large-scale data processing, and developing reliable, maintainable systems. Strong foundation in problem-solving, system design basics, and debugging. Interested in building scalable applications and efficient software systems.

TECHNICAL SKILLS

Programming: Python, SQL, JavaScript (basic)
Backend & APIs: FastAPI, Flask, REST API Design
Data & Tools: Pandas, NumPy, Hadoop, Spark
Core Concepts: Data Structures & Algorithms, OOP, System Design Basics
Tools & Platforms: Git, Linux, AWS (basic), Selenium

SELECTED PROJECTS

Anubodh AI 2026

Context-aware response generation with persistent user memory

- Built a RAG system using Gemini API + MongoDB for persistent user context
- Designed a retrieval pipeline to generate relevant, context-aware responses
- Implemented memory-aware query handling enabling consistent, personalized interactions across sessions
- Developed a real-time interface using Gradio for interactive query handling and response visualization

EduTrack – Location-Aware Attendance System with Liveness Verification 2025

Secure attendance system preventing proxy marking using geolocation and identity checks

- Built an attendance system enforcing location constraints to ensure presence within authorized zones
- Implemented liveness verification mechanisms to prevent proxy attendance and identity spoofing
- Designed backend workflows for attendance logging, validation, and real-time status tracking

Argus – Security Console 2024

Advanced SOC Dashboard & Real-time Threat Detection Platform

- Built a SOC dashboard with 7+ cybersecurity analysis modules
- Detected SQL Injection, XSS, and malicious traffic patterns
- Implemented attack simulation for cloud-based demo environments
- Integrated AbuseIPDB and blacklist-based threat intelligence

DineIQ – Reward & Penalty-Based Food Waste Reduction System (SIH) 2024

Behavior-driven system to minimize food wastage in hostels and mess environments

- Designed a system that tracks user meal consumption and applies reward/penalty mechanisms to discourage food wastage
- Implemented backend logic for logging consumption patterns and calculating user-specific penalties or incentives
- Built data-driven workflows to monitor usage trends and identify high-waste behaviors

EXPERIENCE

Independent Software Developer Jan 2023 – Present

- Built multiple software projects focusing on backend development, data processing, and system reliability
- Designed reusable components and modular architectures
- Focused on debugging, optimization, and improving system performance

EDUCATION

B.Tech, Computer Science & Engineering 7.57/10.0 2022 – Present

Lovely Professional University, Punjab

Relevant Coursework: Machine Learning, Probability & Statistics, Linear Algebra, Natural Language Processing