Monu Maurya

Python Backend Developer | AI/ML Integration | Cloud Enthusiast

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# Professional Summary

Results-driven Backend Developer with hands-on experience in designing scalable microservices, high-performance REST APIs, and database optimization. Skilled in Python, Django, Flask, and MySQL, with strong expertise in AI/ML integration (facial recognition, NLP, LangChain agents). Proven success in reducing API latency by up to 70%, scaling systems for 10K+ records, and deploying secure, production-grade solutions. Adept at cloud environments (AWS, Docker, CI/CD pipelines) and passionate about system design, performance optimization, and clean architecture.

# Technical Skills

* Languages: Python (Advanced), SQL, JavaScript
* Frameworks: Django (DRF, ORM), Flask (REST APIs), FastAPI (Basics)
* Databases: MySQL (Query Optimization, Indexing), PostgreSQL, MongoDB, SQLite
* Cloud & DevOps: Docker, AWS (EC2, S3, RDS), GitHub Actions (CI/CD), Kubernetes (Basics)
* AI/ML Tools: OpenCV, face\_recognition, LangChain, speech\_recognition, pyttsx3
* Concepts: OOP, Data Structures & Algorithms, System Design, API Security (JWT/OAuth), WebSockets, Caching
* Tools: Git, Postman, VS Code, PyTest, SQLite Browser

# Work Experience

Backend Developer Intern – Elevate Labs (Jan 2025 – Apr 2025)

- Built and optimized backend features using Python (Django) and MySQL.  
- Designed and deployed REST APIs serving 500+ RPM with <200ms latency.  
- Implemented database optimizations, improving query performance by 30%.  
- Collaborated with senior developers on scalable, secure microservices.

Python Backend Developer – Freelance Projects (2023 – Present)

- Architected backend logic for multiple production-ready apps, including:  
 • AI Virtual Assistant (Mobi): Processed 10+ voice commands with 92% accuracy, automated WhatsApp/Email tasks, saving 15+ hours/month.  
 • Face Recognition Attendance System: Achieved 98.5% accuracy for 50+ users, reducing attendance processing time from 5 mins → 30s.  
 • Weather Detection App: Reduced API latency by 70% via caching and optimized calls.  
- Ensured best practices: Git version control, unit testing (PyTest), and modular OOP design.

# Key Projects

* Mobi – AI Virtual Assistant: NLP-powered assistant with knowledge-based reasoning (LangChain), real-time query display, and voice interaction. Improved response relevance by 35%. [GitHub](https://github.com/maurya223/mobi-assistant)
* Face Recognition Attendance System: Automated student attendance using OpenCV, face\_recognition, and MySQL. Cut processing from 5 mins → 30s; indexed schema handled 10K+ records efficiently. [GitHub](https://github.com/maurya223/face-attendance)
* Hangman Game with GUI: Gamified learning project with doodle-style UI, confetti animations, and 100+ word DB. Increased user retention in test group. [GitHub](https://github.com/maurya223/hangman-game)

# Education

B.Tech – Computer Science & Engineering (2022 – 2026)  
Guru Gobind Singh Indraprastha University, New Delhi  
- Relevant Coursework: Data Structures, Algorithms, DBMS, Software Engineering, AI/ML

# Certifications

- Python Programming (TestDome) – Top 5% in OOP, Algorithms, Debugging  
- SQL Fundamentals (TestDome) – Optimized 20+ queries under 100ms  
- (Planned/Recommended: AWS Cloud Practitioner, Docker/Kubernetes Certification)

# Languages

English – Professional Proficiency  
Hindi – Native