

# Lokesh Chauhan

Python Developer

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🌐 Lokesh Chauhan 🔄 lokeshchauhan2801

## Profile

Experienced Python developer with 1+ years of full stack experience. Proficient in Python (Django, Flask, FastAPI) , MySQL, PostgreSQL, SQLAlchemy. Specialized in building high-performance REST APIs (over 100 + APIs developed with 30% performance improvement), designing efficient database models. Eager learner, straightforward communicator, and collaborative contributor in fast-paced environments

## Skills

### Programming language

- Python
- JavaScript
- C++

### Version Control

- Git

### Containerization

- Docker

### Web Frameworks

- Flask
- FastAPI
- Django

### Concurrency Techniques

- Multithreading
- Multiprocessing
- Celery
- Asyncio

### Database Management

- MySQL
- PostgreSQL
- Elasticsearch
- Redis
- SQLAlchemy

### AWS Service

- S3 Bucket

### Front-end Frameworks and Libraries

- Vue.js
- ReactJs

### ETL Tools

- Pandas
- Numpy

## Professional Experience

### NMG Technologies

Python Developer

02/2024 – present

Gurugram, Indian

#### • Back-end:

- **Performance Improvement:** Highperformance Python Web applications developed using Flask-Restful and FastAPI resulted in a 25% improvement in API responsiveness. Focus on the development and optimization of REST APIs for better responsiveness and scalability.
- **Efficient Database Transactions:** Implemented database operations sped up with Async SQLAlchemy over FastAPI, dropping by 30% the time for data transactions while ensuring efficient data handling for REST APIs interactions through asynchronous processing.
- **Enhanced Search:** Integrated Elasticsearch for faster data fetches, which reduced the search time by 70%, thereby improving the overall system performance.
- **Cloud Integration with AWS:**
  - **Amazon S3 :** leveraged scalable and fault-tolerant storage solutions to handle/save huge data volumes.

## Courses

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### Python Full-Stack

2023 – 2024

Ducat-India

Delhi, India

Gained expertise in full-stack development with a focus on **Python**. Key areas include:

- **Python**: Mastered core programming, OOP, and efficient coding practices.
- **Django & Flask**: Built web applications and APIs using Django and Flask frameworks.
- **Data Science**: Utilized **NumPy** for numerical computations and **Pandas** for data manipulation.
- **React.js**: Developed interactive UIs with React, focusing on components, state management, and hooks.
- **MySQL**: Proficient in database design and SQL queries.

## Projects

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### Ludo Multiplayer Game

2024 – 2024

The **Ludo Multiplayer Game** is a real-time, multi-user game built using **Python FastAPI**, leveraging **WebSockets** for live gameplay communication. The system is containerized using **Docker** and efficiently manages state and real-time updates using **Redis**. A **User Service** is integrated for authentication, player management, and session handling. Additionally, **REST APIs** are exposed for game-related operations, such as leaderboard retrieval and game history.

#### Tech Stack Used

- **Backend Framework**: FastAPI (for handling both REST API and WebSockets)
- **Real-time Communication**: WebSockets (FastAPI's WebSocket support)
- **State Management**: Redis (for caching game states and player sessions)
- **Containerization**: Docker (for easy deployment and scaling)
- **Database**: PostgreSQL (for user data, game history, and statistics)
- **Authentication**: JWT-based authentication for secure player logins
- **Microservices**: User Service for player authentication and management

## Education

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### Master of Computer Science

Chandigarh University

07/2023 – present

Punjab, India

### Bachelor of arts

Uttarakhand open university

07/2020 – 07/2023

Uttarakhand, India

### Diploma in Electronics and Communication Engineering (ECE)

Govt. Polytechnic , Dwarahat

06/2019 – 06/2022

Uttarakhand, India