

# Maneesh Agarwal

## Sr. Software Engineer

### SUMMARY

With 7+ years of software development experience, I specialize in Python, JavaScript, and PHP for both backend and frontend development. Proficient in MySQL, MongoDB, and MariaDB, I have expertise in AWS and Azure Services including Synapse Analytics, Microsoft Fabric, and ADLSGen2. Skilled in PowerBI for reporting, I excel in full-stack development, automation, and problem-solving across the software development lifecycle.

### Key Responsibilities:

#### Project 1: Django Application with REST Framework and Postgres Database

- Developed a Django application to manage product reviews and ratings, ensuring efficient data retrieval and storage using a PostgreSQL database.
- Implement a RESTful API using Django REST Framework to enable seamless communication between the frontend and backend for retrieving product reviews and ratings.
- Design and optimize database models to effectively represent product information, user reviews, and ratings, while maintaining data integrity and performance.
- Create and execute unit tests to validate the application's functionality, ensuring that all endpoints and data interactions perform as expected.

#### Project 2: Data Analytics and Visualisation

- Utilize Python libraries such as Pandas, NumPy, and Matplotlib to analyze large datasets and generate insightful visualizations.
- Developed and maintained data pipelines for extracting, transforming, and loading data into analytical systems.

#### Project 3: SQL Data Engineering

- Designed and optimized SQL databases for efficient data storage and retrieval, leveraging expertise in MySQL, MongoDB.
- Developed and maintained ETL processes to ensure the integrity and consistency of data across multiple platforms.
- Performed data modelling and schema design to support business requirements and analytical needs.
- Monitored database performance and troubleshoot issues related to query optimization, indexing, and data integrity.

### SKILLS

- Python
- MySQL
- Django
- Django REST Framework
- Flask and Fast API
- PHP
- Postgres
- Mongo DB
- Azure Synapse Analytics
- Azure Data Factory
- Microsoft Fabric
- Git/GitHub
- HTML/CSS
- JavaScript

### EDUCATION

- Master of Computer Applications, **Sikkim Manipal University, Sikkim**

#### **Project 4: Azure Data Lake Storage (ADLS) and Synapse Analytics**

- Configured and managed Azure Data Lake Storage Gen2 environments to store and analysed large volumes of structured and unstructured data.
- Utilized Azure Synapse Analytics for big data processing and analytics, including data warehousing and data integration capabilities.
- Implemented security and access controls to ensure data privacy and compliance with regulatory requirements.
- Optimized data storage and retrieval processes for performance and cost efficiency.

#### **Project 5: Azure Data Factory and Microsoft Fabric**

- Configured Design and implemented data integration and orchestration workflows using Azure Data Factory to automate data movement and transformation tasks.
- Utilized Microsoft Fabric for creating and managing Lake houses and warehouse to ingest the data from various data source.
- Experienced in creating Power BI Report within the Microsoft Fabric using data source from One Lake.