RAHUL GJ

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GitHub: https://github.com/rahul-1028

https://rahul-1028.github.io/rahul_gj-portfolio/

SUMMARY

Python Backend Developer with 4+ years of experience building and maintaining backend applications and RESTful APIs for enterprise financial systems. Currently working at Tata Consultancy Services (TCS) for Morgan Stanley, supporting internal platforms in the Wealth Management domain. Strong hands-on experience with Python, Flask, Django, PostgreSQL, AWS, SQLAlchemy 2.0+, Alembic migrations and Docker, along with a clear understanding of API architecture, authentication, and backend design principles. Known for clean coding practices, performance-focused development, and effective collaboration in Agile teams.

SKILLS

Programming & Scripting : Python, SQL
Front-End Skills: : HTML, CSS, JavaScript (Basics), React (Basics)
Backend & API Development : Flask, Django, RESTful APIs, Backend Architecture, API Architecture, Authentication & Authorization
Databases : PostgreSQL, MySQL, Query Optimization, Indexing, SQLAlchemy 2.0+, Alembic migrations
Cloud & DevOps : AWS (EC2, S3, IAM), Docker, CI/CD Pipelines, Linux
Testing & Quality : Unit Testing, Functional Testing, Non-Functional Testing, User Acceptance Testing (UAT)
Version Control & Tools : Git, GitHub, Jenkins, VS Code
Software Engineering Practices : Agile, Scrum, Requirement Analysis, Performance Optimization
Additional Exposure : FastAPI (Working Exposure)

PROFESSIONAL EXPERIENCE

Tata Consultancy Services (TCS) – Morgan Stanley   **January 2024 - Present**
Role: Python Developer

- Developed and maintained Python-based backend applications for internal financial systems supporting the Wealth Management domain.
- Designed and built RESTful APIs using Flask, with a clear understanding of API architecture, request–response flow, and service layering.
- Implemented authentication and authorization mechanisms for APIs using secure, token-based access and role-based controls.
- Worked on Django-based backend components to support modular and scalable application design.
- Gained working exposure to FastAPI, understanding modern API patterns and asynchronous request handling.
- Implemented backend business logic, validations, and integrations across multiple services.
- Built Python automation scripts to streamline internal workflows and improve system efficiency.
- Worked extensively with PostgreSQL, writing optimized SQL queries for data storage, retrieval, and reporting.
- Improved application performance through query optimization, indexing, and code refactoring.
- Implemented logging, exception handling, and consistent error responses to improve backend reliability.
- Collaborated with cross-functional teams to gather and understand functional and non-functional requirements.
- Performed unit testing and functional testing to ensure application correctness and stability.
- Participated in code reviews and followed Agile/Scrum development practices using Git/GitHub.

Role: Associate Python Developer   **January 2022 - December 2023**

- Provided technical guidance to the team for complex debugging, optimization, and performance tuning.
- Conducted User Acceptance Testing (UAT) and implemented quality assurance processes to validate application performance.
- Spearheaded the migration of legacy applications to cloud-based architectures, improving scalability and reliability.
- Optimized database queries and indexing strategies, reducing query execution time Enhanced security and compliance measures by implementing encryption protocols and access control policies.

PROJECT HIGHLIGHTS

- **Developed Python REST APIs for financial data processing and internal tools.**
- **Built Python-based ETL pipelines to clean, validate, and transform financial datasets.**
- **Automated operational workflows using Python, reducing manual effort and improving efficiency.**
- **Enhanced backend performance through database tuning and application optimization.**
- **Supported end-to-end backend development from requirement analysis to deployment readiness.**

EDUCATION

Bachelor of Engineering in Computer Science
St. Joseph's Institute of Technology | Graduated: 2020

CERTIFICATIONS

- **Python Programming – Udemy**
- **REST APIs with Flask and Python - Udemy**