

# RAHUL GJ

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GitHub: <https://github.com/rahul-1028>  
[https://rahul-1028.github.io/rahul\\_gj:portfolio/](https://rahul-1028.github.io/rahul_gj:portfolio/)

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## SUMMARY

Software Engineer with 4 years of experience in enterprise systems for Morgan Stanley – EC Data & Analytics Technology. Skilled in developing high-performance REST APIs using FastAPI, Flask, and Django REST Framework, implementing JWT authentication, optimizing SQL queries, and automating workflows in AWS environments. Experienced in ORM (SQLAlchemy), middleware, and Linux scripting. Strong background in production support, release management, and performance troubleshooting. Focused on writing clean, maintainable, and scalable backend code.

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## SKILLS

**Backend:** FastAPI (Async, CRUD, Pydantic, RBAC, JWT, Middleware), Flask, Django REST Framework

**ORM:** SQLAlchemy

**Languages:** Python, SQL

**Database:** MySQL (Query Optimization, Indexing, Transactions)

**Cloud/DevOps:** AWS (EC2, S3, IAM, Lambda), Docker, CI/CD

**Linux/Scripting:** Bash, grep/awk/sed, Cron jobs, Process monitoring

**Concepts:** OOP, Logging, Exception Handling, Microservices, RESTful Design, Agile

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## PROFESSIONAL EXPERIENCE

### Tata Consultancy Services (TCS) – Morgan Stanley

#### Role: Backend Developer / Automation Engineer

June 2023 - Present

- Developed REST APIs with FastAPI; async endpoints for high performance
- Built CRUD modules with Pydantic validation
- Secured APIs using JWT authentication & RBAC
- Created middleware for logging, error handling, and request processing
- Managed DB operations via SQLAlchemy ORM and optimized MySQL queries
- Automated backend workflows using Python & AWS Lambda
- Deployed apps on AWS EC2; implemented structured logging & monitoring

#### Role: Application Support Engineer

January 2022 - May 2023

- L2/L3 production support for EC Data & Analytics systems
- SQL debugging, root cause analysis, and incident resolution
- Log analysis using Linux tools (grep, awk, sed)
- Automated repetitive tasks with Python scripts
- Coordinated releases and validated deployments

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## PROJECT HIGHLIGHTS

### Trade & Portfolio Data Management API

- Developed REST APIs for managing enterprise trade and portfolio datasets using FastAPI & SQLAlchemy
- Secured APIs with JWT authentication & RBAC
- Implemented middleware for logging and error handling
- Optimized SQL queries and added indexing.
- Added structured logging for audit traceability and analytics reporting

### Financial Reporting & Reconciliation Tool

- Automated trade and portfolio data validation and report generation for analytics teams
- Built backend logic to detect transaction inconsistencies and anomalies
- Streamlined reconciliation workflows using Python + SQL for EC Data & Analytics pipelines

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## EDUCATION

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

## CERTIFICATIONS

- Python Programming – Udemy
- REST APIs with FastAPI and Python - Udemy