

# Harsh Tripathi

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## PROFESSIONAL SUMMARY

Software Engineer focused on back-end development, having experience in the development and maintenance of scalable, production-grade applications for more than two years. Strong expertise in designing and implementing RESTful APIs, service integrations, and microservices architectures. Direct experience with cloud technologies, including deployment automation, load balancing, and performance optimization, ensuring high availability and reliability.

## SKILLS SUMMARY

- **Languages:** Python, JavaScript, SQL, JAVA
- **Frameworks:** FASTAPI, GraphQL, Django, Redis
- **Tools:** Docker, GIT, PostgreSQL, MongoDB, Terraform, Jenkins
- **Platforms:** Amazon Web Services(AWS), Splunk, S3, VPC, Kafka, JWT, OAuth
- **Architecture:** Serverless, Microservices, Monolithic, System Designing

## EXPERIENCE

- Teksystems Global Services in India** Bangalore, India  
October 2023 - Current
- **Software Engineer**
    - **Optimization and Reliability:** Worked on analyzing and resolving production issues across REST APIs, databases, and authentication layers usually with queries optimization, logging response time and isolating slow components.
    - **Feature Implementation:** Implemented a role-based comments and notification feature that streamlined communication between users and business teams, reducing average response time by more than 40% through targeted, event-driven notifications.
    - **Migration Activities:** Executed controlled data migration and schema update activities within established release pipelines, validating data consistency and minimizing production risk while maintaining system stability and reliability.
- Teksystems Global Services in India** Bangalore, India  
February 2023 - September 2023
- **Technical Trainee**
    - **Implementation:** Implemented RESTful APIs for customer accounts, tickets, and interaction management, following clean architecture and controller-service-repository patterns
    - **Maintenance and Debugging:** Collaborated with senior engineers to review code, follow best practices, and align changes with existing application architecture.
    - **Quality Improvements:** Participated in code reviews, addressing feedback and improving code quality.

## PROJECTS

- Multi-region-event-processing-platform** Link
- **Cloud Architecture Implementation**
    - **Implementation:** Designed and implemented a multi-region, serverless backend platform to deliver low-latency and fault-tolerant event processing for global users.
    - **Result:** Achieved improved availability and reduced user-perceived latency by routing traffic to the nearest region and decoupling request handling from background processing.
    - **Technology:** AWS (API Gateway, Lambda, EventBridge, DynamoDB Global Tables), Terraform, Python
- Real-time Messaging System** Link
- **Distributed System Designing**
    - **Implementation:** Designed and developed a real-time messaging backend using Python and FastAPI, supporting secure user authentication and message exchange.
    - **Result:** Built a scalable and extensible architecture, making it easy to add features such as offline messaging, message status (sent/read), and async processing.
    - **Tech Stack:** Python, FastAPI, REST APIs, WebSockets, PostgreSQL, SQLAlchemy, Redis, JWT Authentication, Docker, Git
- Personal Portfolio(Ongoing)** Link
- **API-Driven Layered Architecture**
    - **Implementation:** Designed and developed a decoupled full-stack portfolio application with a React SPA frontend communicating with a FastAPI backend via RESTful APIs.
    - **Result:** Enabled dynamic portfolio updates directly from the UI without code changes, reducing manual deployment effort and improving content update speed.
    - **Tech Stack:** Python, FASTAPI, SQLAlchemy, Postgresql, JWT, Pydantic(Data Validation)

## CERTIFICATIONS AND ACHIEVEMENTS

- AWS Certified Developer Associate
- Python Backend Development with FASTAPI and Django
- 500+ Coding problem solved across all platforms

## EDUCATION

- B.tech in Information Technology** Noida, India  
• **Collage : G.L Bajaj Institute Of Technology** August 2019 - July 2023