

Roshan Shaik

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Skills

Languages: Java, SQL

Backend & Frameworks: Spring Boot, Spring Security, REST APIs, Microservices, JPA, Hibernate, JWT Authentication

Databases & Caching: MySQL, PostgreSQL, Redis, NoSQL

Cloud & DevOps: AWS, GCP, Docker, CI/CD (GitHub Actions, Jenkins), Kubernetes

Messaging: Apache Kafka, RabbitMQ

Practices: Git, Agile, Logging, Monitoring

Work Experience

Virtusa, Bangalore

Jan 2026 – Present

Software Engineer

- Enhanced Priority-Based Throttling using Redis-backed Token Buckets to ensure critical APIs receive reserved capacity during traffic spikes.
- Implemented Parent-Child Throttling to enforce both application-level limits and aggregate capacity limits for applications sharing a common parent allocation.
- Developed gateway logic to resolve API priority and parent-child relationships at runtime, enforcing throttling consistently across gateway requests.
- Implemented atomic throttling operations using Redis Lua scripts to prevent race conditions while updating shared token-bucket state.
- Validated throttling configurations and runtime behavior for priority-based and parent-child throttling, including allowed and rejected requests based on configured limits.

Hutech Solutions, Bangalore

Apr 2023 - Oct 2025

Software Development Engineer

- Designed and developed scalable RESTful APIs using Java, Spring Boot, Spring Security, and JPA/Hibernate for cargo, warehouse, and inventory modules.
- Owned backend services for inventory tracking, stock reservation, and billing automation across the logistics workflow.
- Implemented event-driven workflows using Pub/Sub for inventory updates and billing events, enabling asynchronous processing and improved scalability.
- Implemented transactional integrity, audit logging, and email/SMS notifications across inventory and dispatch workflows.
- Enhanced system performance and reliability through Redis caching and database query optimization.
- Containerized applications using Docker and deployed microservices on Cloud Run with CI/CD pipelines using GitHub Actions.

Education

Prakasam Engineering College, Kandukur

Jun 2016 - Dec 2020

B.Tech in Electronics & Communication Engineering

Academic Focus: Computer Networks, Data Structures and Algorithms, Database Systems, Operating Systems, Object-Oriented Programming, Distributed Systems

Project Work

- **ShopVerse – E-Commerce Backend Platform:** Designed and developed a scalable microservices-based backend using Java and Spring Boot for products, orders, users, and inventory. Implemented REST APIs with JWT-based authentication, Redis caching for read optimization, and Apache Kafka for asynchronous processing. Deployed containerized services using Docker with Jenkins-based CI/CD pipelines on AWS.

Awards and Certificates

- **Best Employee of the Year:** Awarded at Hutech Solutions for consistent performance and backend system optimization.
- Certified Java Developer
- Data Structures and Algorithms Certification