

Ritik Raj

Backend Engineer | Systems & Infrastructure

Node.js | Go | Distributed Systems | AWS

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GitHub LinkedIn

Professional Summary

Backend engineer experienced in building and operating production systems end-to-end. Currently working across backend services, AWS infrastructure, CI/CD, databases, networking, monitoring, and reliability for products supporting **400K+** users. Experienced in **Node.js and Go, microservices, event-driven architectures, distributed systems, and production infrastructure**, with ownership spanning system design, development, deployment, observability, scaling, and production debugging.

Experience

• Upsurge – Raise Financial Services

Feb 2025 – Present

Senior Associate

- Support a platform serving **400K+** users, with backend and infrastructure ownership across **three products: Upsurge, Upskills, and UpTrade**.
- Manage production infrastructure across **20+ EC2 servers**, including deployments, networking, access management, monitoring, backups, and operational workflows.
- Build and maintain backend services using **Node.js and Go**, working with PostgreSQL, MongoDB, Redis, Docker, and AWS services.
- Own services across the complete lifecycle from development and staging to production deployment, monitoring, debugging, and reliability improvements.
- Work on system architecture, service boundaries, asynchronous communication, failure handling, observability, and scaling decisions.

UpTrade – Order Management & Matching Platform

- Built and contributed to an **11-microservice Go Order Management System (OMS)** covering order management, portfolio management, risk management, settlement, position monitoring, and liquidation workflows.
- Designed event-driven order processing using **RabbitMQ and Kafka**, with correctness and reliability as primary considerations for latency-sensitive workflows.
- Worked on the integration between the Go OMS and a **Java 17 + Spring Boot matching engine (OMT)** using Kafka-based JSON contracts.
- Implemented workflows covering order placement, cancellation, fills, trade ingestion, settlement, position monitoring, stop-loss/take-profit handling, and liquidation.
- Worked with **Redis, PostgreSQL, gRPC, Kafka, and RabbitMQ** across distributed backend services.

• Unisys

Jan 2024 – Jan 2025

Junior Software Engineer

- Grew from intern to engineer, working across enterprise software and hybrid-cloud infrastructure.
- Developed C# applications, WCF services, and ASP.NET MVC applications in an Agile software development environment.
- Worked on cloud and infrastructure solutions for hybrid-cloud environments involving VMware and HCI technologies.
- Worked with AWS services including **EC2, S3, Lambda, RDS, and ECS**, along with cloud-native principles and Infrastructure as Code.
- Worked with **Windows Server and Active Directory** environments and collaborated with cross-functional teams on cloud operations and client requirements.

Technical Skills

Languages: Node.js, Go, JavaScript, Java, C#, SQL

Backend: Microservices, REST APIs, Event-Driven Architecture, Distributed Systems, gRPC, System Design

Messaging: Apache Kafka, RabbitMQ

Databases: PostgreSQL, MongoDB, Redis

Cloud: AWS EC2, S3, RDS, ECS, Lambda, ALB, IAM

Infrastructure: Docker, Linux, CI/CD, Infrastructure as Code, Networking, Production Operations

Monitoring: Prometheus, Grafana, Alertmanager, Logging, Monitoring, Incident Debugging

Education

• SRM Institute of Science and Technology, Chennai

2020 – 2024

Bachelor of Technology in Computer Science and Engineering – Big Data Analytics

CGPA: 9.04

• Guru Gobind Singh Public School, Bokaro Steel City

2017 – 2019

Senior Secondary – Science with Computer Science

77.20%