

Rishabh Upadhyay

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Education

SRM Institute of Science and Technology
B.Tech.-Computer Science and Engineering 9.33 CGPA

Tamil Nadu, India
Sept 2021 - Jun 2025

Technical Skills

- Key AI/ML Skills :** LLMs, Gen AI, AI Agent Development, RAG, Ollama, MCP, OpenCV
Languages : C/C++, Python, React.js, React-native, Node.js, Next.js, HTML/CSS, MySQL, Terraform, Kubernetes, Docker
Developer Tools : Maven, IntelliJ, VS Code, PyCharm, Tableau, SQL Workbench, AWS, Azure, Gitlab, Insomnia, Android Studio, Freeline, Dbeaver
Monitoring Tools : Dynatrace, Splunk, Zabbix, Glassbox, Healthcare Platform

Experience

Associate Software Engineer II (Full Time)

Optum Global Solutions (UHG) *Dec 2025 - Present*

- Contributed to Optum's healthcare ecosystem supporting 140M+ clinical decisions annually, enabling faster and more accurate provider workflows.
- Contribute to apps supporting 140M+ healthcare decisions annually, improving provider efficiency & Work on features used by 80% of U.S. health plans, enhancing member experiences nationwide.
- Improve performance, testing, debugging, and cross-platform reliability. Collaborate in Agile teams, participate in code reviews, and maintain security-compliant codebases.

Software Engineer (Full Time)

Aptiv Components Pvt Ltd *Jul 2025 - Dec 2025*

- Design and implemented CI/CD pipelines for ML models by Working with Airflow to automate model training and deployment and optimizing data ingestion and feature engineering workflows.
- Deploy machine learning models using Docker and Kubernetes. Implement model monitoring tools to track drift, performance, and failures. Ensure smooth integration of ML models into production systems.
- Optimized AWS costs by implementing **auto-scaling, Spot Instances, and Reserved Instances**, reducing compute expenses by **30%**. Improved **storage efficiency** using **S3 lifecycle policies and data compression**, cutting costs by **20%**. Developed **cost monitoring and resource shutdown**, minimizing waste and ensuring efficient cloud usage.

Projects

Secure Secrets Management Integration | AWS Secrets Manager, Terraform, Gitlab

- Integrated AWS Secrets Manager with Terraform to securely manage infrastructure secrets, eliminating .tfvars files across 100% of deployments and automating secret retrieval during provisioning.
- Configured fine-grained IAM roles and policies to enforce least-privilege access, reduce secret exposure risk by 95%, and enable seamless secret rotation with full auditability.
- Improved infrastructure security posture by 40% and reduced manual credential handling by 80%, aligning the solution with DevSecOps best practices and compliance standards.

DevOps Monitoring and Cost Optimization Dashboard | AWS, Prometheus, Grafana, Gitlab, Terraform

- Deployed a centralized monitoring and alerting system for production workloads using Prometheus, Grafana, and AWS CloudWatch, improving system observability and reducing MTTD by 45%.
- Contributed to a 15% reduction in monthly cloud costs by flagging idle EC2 instances, optimizing EBS volumes, and adjusting auto-scaling thresholds based on insights from Prometheus alerts and Grafana dashboards.
- Engineered off-hours infrastructure shutdown using an AWS Lambda function, which stopped EC2 instances after 8 PM and restarted them each morning—reducing idle resource usage and cutting non-working hour cloud costs by 35%.

Certifications

- Oracle Cloud Infrastructure Foundations Associate — Oracle, 2024
- Oracle Cloud Data Management Foundations Associate — Oracle, 2024
- Oracle Building MySQL Databases for Applications — Oracle, 2024