

# A Sairam Kumar Patro

+91-750-454-1161 | itsairamkumar@gmail.com | isairamkumar.com | LinkedIn | GitHub

## PROFESSIONAL SUMMARY

Detail-oriented AWS DevOps Engineer with hands-on expertise in AWS, Linux, Docker, Jenkins, Terraform, Git, CI/CD, and SQL Server. Skilled in cloud infrastructure, automation, containerization, and deployment pipelines, with a strong focus on building scalable, reliable, and efficient systems.

## CORE TECHNICAL SKILLS

Cloud & AWS	EC2, VPC, IAM, S3, RDS, ECS, EKS, Lambda, ALB, Auto Scaling, CloudWatch
Infrastructure as Code	Terraform, AWS CloudFormation
CI/CD & DevOps	Jenkins, GitHub Actions, Git, Automated Deployment Pipelines
Containers & Orchestration	Docker, Kubernetes (EKS), Amazon ECR
Operating Systems & Scripting	Linux (Ubuntu/CentOS), Bash, Python (Basic)
Databases	SQL Server 2016/2019, RDS, MySQL, PostgreSQL, MongoDB
Database HA/DR	Always On Availability Groups, Database Mirroring, Log Shipping, Backup & Recovery
Networking & Security	IAM, Security Groups, NACLs, VPC, DNS, DHCP, TCP/IP, VPN
Monitoring & Observability	AWS CloudWatch, SQL Server Monitoring & Alerting
Virtualization	VMware, Hyper-V, Virtual Machine Management
Additional	SOP Creation & Documentation, Root Cause Analysis, Team Leadership (15+ engineers), Stakeholder Coordination

## PROFESSIONAL EXPERIENCE

**Cloud & DevOps Engineer / SQL Server DBA** | Eduquity Career Technologies Pvt. Ltd.

January 2024 – Present | Bhubaneswar, Odisha, India

- Architected and deployed scalable, multi-tier AWS environments using EC2, Application Load Balancers (ALB), Auto Scaling Groups, and VPCs, implementing secure IAM policies and CloudWatch monitoring to ensure high availability and operational visibility.

- Automated infrastructure provisioning and configuration management using Terraform, reducing manual deployment effort and improving consistency across environments.
- Designed and maintained CI/CD pipelines using Jenkins, GitHub Actions, and Git, enabling automated build, test, and deployment workflows for faster and more reliable releases.
- Containerized applications using Docker and deployed workloads on AWS ECS and EKS, improving scalability, portability, and deployment consistency across environments.
- Led on-premises SQL Server migrations to AWS (EC2 and RDS), achieving near-zero downtime and zero data loss through detailed migration planning, validation, and rollback strategies.
- Administered SQL Server 2016 and 2019 databases across 3 production servers supporting 6,000+ users in Development, QA, and Production environments while maintaining high availability and minimal downtime.
- Implemented Always On Availability Groups, Database Mirroring, and Log Shipping solutions, eliminating single points of failure and significantly improving disaster recovery capabilities.
- Optimized SQL Server performance through indexing strategies, execution plan analysis, proactive monitoring, and maintenance automation, improving query response times and reducing resource utilization.

### **Sr. Executive – IT Infrastructure & Operations** | Eduquity Career Technologies Pvt. Ltd.

*December 2015 – Present | Bhubaneswar, Odisha, India*

- Managed end-to-end IT infrastructure for 7,000+ users across multiple locations, improving overall system reliability by 35% and reducing operational delays by 20% through proactive monitoring.
- Supervised a cross-functional team of 15 outsourced engineers and 4 junior associates, streamlining workflow and service delivery through structured task assignment and performance reviews.
- Deployed and configured physical and virtual servers across multiple sites, enhancing infrastructure scalability, availability, and performance.
- Designed and maintained VMware-based virtualization infrastructure, optimizing compute, storage, and network resource allocation.
- Configured routing, switching, VPN (FortiClient), and SonicWall Firewall policies to ensure secure and stable network connectivity for 1,000+ devices.
- Managed hybrid on-premise and AWS cloud environments, implementing AWS-based solutions to extend infrastructure scalability.
- Developed SOPs and delivered technical training to 40+ staff members, improving onboarding efficiency by 30% and reducing recurring incidents.

### **Stakeholder Coordination Lead (Additional Responsibility)**

*December 2024 – December 2025*

- Coordinated with clients and internal stakeholders to capture technical requirements and align delivery expectations.

- Prepared project documentation and ensured effective communication flow between business and technical delivery teams.
- 

## PROJECTS

### **AWS Cloud Infrastructure with CI/CD Pipeline**

- Designed and provisioned a highly available 3-tier AWS architecture (EC2, RDS, ALB, Auto Scaling) using Terraform, with IAM role-based access controls and CloudWatch dashboards and alarms.
- Built an end-to-end Jenkins CI/CD pipeline integrating Dockerized application builds, ECR image pushes, and automated deployments, eliminating manual release steps.
- Improved deployment reliability and reduced infrastructure provisioning time through IaC automation and proactive cloud monitoring.

### **Digital Evaluation Platform – University Examination System**

- Administered high-availability SQL Server databases for a large-scale examination platform, ensuring zero data loss and consistent performance during peak evaluation periods.
  - Optimized database performance through index tuning, query optimization, and capacity planning, improving application responsiveness and reducing load times.
  - Resolved critical production incidents, maintained database security and integrity, and collaborated cross-functionally to ensure compliance with organizational data standards.
- 

## INTERNSHIP & SIMULATIONS

### **SQL Database Intern - Brainwave Matrix Solutions (Remote)**

*February 2025 – April 2025 | GitHub: [github.com/itsairamkumar/School-Database-Management-System](https://github.com/itsairamkumar/School-Database-Management-System)*

- Designed and optimized MySQL database schemas using reverse engineering techniques; developed normalized ER diagrams.
- Performed SQL query tuning, database backup and restore operations, and troubleshooting using MySQL Workbench.

### **Tata iQ Data Analytics Job Simulation - Forage**

*May 2026*

- Conducted exploratory data analysis (EDA) using GenAI tools to assess data quality and identify customer delinquency risk indicators.
  - Designed an AI-driven collections strategy leveraging agentic AI, automation, ethical AI principles, and regulatory compliance frameworks.
- 

## EDUCATION

**MCA in Cloud Computing** – Manipal University, Jaipur (*Currently Pursuing*)

**BCA in Information Technology** – Berhampur University, Odisha (*2012–2015*)