

Rahul Kumar Sharma

Senior Research Associate | rahulsharma.rks31@gmail.com | + 91-83720-94589 |

LinkedIn: [Rahul Kumar Sharma](#) | [Portfolio](#)

Summary

Cloud Engineer with 4+ years of experience in AWS and Azure infrastructure design, automation (Python, Terraform), and cloud cost optimization (20–30% savings). Adept at Well-Architected Reviews, end-to-end automation, and implementing security best practices to deliver scalable, secure, and cost-efficient multi-cloud environments. Skilled at stakeholder collaboration and aligning technical solutions with business goals.

Skills

- **Cloud Platforms:** AWS & Azure
- **Scripting Language:** Python & Linux Shell
- **Database:** MySQL & MongoDB
- **IaC:** Terraform & AWS CloudFormation
- **Security & Operations:** IAM and Cost Optimization

Certification: [AWS Certified Solutions Architect – Associate](#)

Professional Experience

CloudThat Technologies Pvt. Ltd.

Senior Research Associate | October 2024 – Present

- Led AWS Well-Architected Reviews for 10+ client accounts, improving operational excellence and cost efficiency by 25% through prioritized remediation plans.
- Architected and automated AWS EC2 instance scheduling, RDS automated backups, Amazon S3 cross-region replication, and EKS cluster scaling using Python (Boto3), AWS Lambda, and infrastructure as code (Terraform), resulting in an 80% reduction in manual cloud management effort and aligning with best practices for operational excellence and cost optimization.
- Designed and executed Azure tenant-to-tenant migration and hybrid connectivity solutions, ensuring downtime under 2 hours per migration and security compliance.
- Developed granular IAM roles and custom permission sets, enforcing least-privilege access policies to enhance cloud security and meet compliance standards.

Research Associate | November 2021 – September 2024

- Conducted detailed cloud cost optimization analyses, achieving average monthly cloud spend savings of 20%+ via resource rightsizing and reserved instance strategies.
- Developed Infrastructure-as-Code (IaC) templates with Terraform and AWS CloudFormation for compliant, repeatable environments supporting automation and cloud governance.
- Automated S3 event-driven workflows, billing alerts, and logistics pipelines, decreasing process times by 60% and supporting incident management SLAs.
- Collaborated closely with clients to troubleshoot cloud infrastructure incidents, maintaining a 99.9% uptime SLA.

Research Intern | April 2021 – October 2021

- Built a high-availability Moodle LMS platform on AWS (Auto Scaling, RDS Multi-AZ), reducing downtime by 75%.
- Gained hands-on experience with DevOps pipelines, containerization (Docker), and Azure Logic Apps to streamline deployment processes.

Education

Master of Computer Applications (MCA): Jain University, Bangalore | 2021

Bachelor of Computer Applications (BCA): Siliguri Institute of Technology | 2018

Online Profiles

[GitHub](#) | [HackerRank](#) | [Medium](#) | [Dev.to](#)

Achievements

Proactiveness Award, CloudThat Technologies | Blog Award for Technical Writing