

# **Yash Kumar Lal Das**

## **Cloud Engineer**

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## **SUMMARY**

Dynamic Cloud & DevOps Engineer with hands-on expertise in AWS (Amazon Web Services), specializing in S3 (Simple Storage Service), EC2 (Elastic Compute Cloud), and VPC (Virtual Private Cloud) for scalable deployments and secure networking. Proven experience as a Systems Engineer at TCS (Tata Consultancy Services) with a strong foundation in Linux, networking, and infrastructure operations. Skilled in DevOps practices, including version control, automation, and infrastructure as code to streamline deployments. Executed multiple AWS projects, including static website hosting, 2-tier VPC architecture, EC2 provisioning, and AI app deployment using Bedrock, showcasing end-to-end cloud implementation capabilities.

## **SKILLS**

**Cloud Platforms:** AWS (EC2, S3, VPC, IAM, CloudFront, Lambda, API Gateway, Route 53)

**Operating Systems:** Linux (Ubuntu, Amazon Linux), Windows server

**Languages & Scripting:** Python, Bash, SQL

**Networking & Tools:** Subnetting, NAT Gateway, Bastion Host, Routing Tables, DNS management (Route 53)

**DevOps & IaC (Infrastructure as Code):** Git, GitHub, Terraform CI/CD pipelines, IAM, troubleshooting,

**Security & Monitoring:** AWS CloudWatch, CloudTrail, Guard Duty, NACLs (Network Access Control Lists), Security Groups, WAF (Web Application Firewall)

**Other Tools & Platforms:** Git/GitHub, Cloud Platforms (AWS, Azure, GCP), Business Intelligence systems.

## **EXPERIENCE**

### **University of North Texas – Library Services, March 2024-Present**

### **Data Analyst Intern**

- Provided technical support for library systems, ensuring operational uptime and assisting faculty/students with troubleshooting.
- Performed data analysis and dashboard reporting using Excel and Power BI, contributing to informed decision-making.
- Executed automation workflows using Python and SQL, reducing manual work and improving service turnaround time.
- Supported server-related tasks, basic backup operations, and security enhancements within the campus IT environment.
- Collaborated with teams to improve user experience through network connectivity checks, system monitoring, and performance audits.

### **Tata Consultancy Services (TCS), India | Jul 2019 - Oct 2023**

### **Systems Engineer**

- Monitored and maintained enterprise IT infrastructure, ensuring 24x7 uptime for global flight and maritime vessel networks.
- Performed log analysis, incident tracking, and fault resolution, leveraging tools like Salesforce and custom dashboards.
- Gained foundational experience with Linux systems, network routing, and security configurations.
- Collaborated with cross-functional teams to implement server upgrades, firewall enhancements, and perform backup and recovery.
- Built a strong technical base in system operations, now extended through hands-on AWS cloud projects involving EC2 provisioning, VPC networking, and S3 hosting setups.

## **PROJECT DETAILS**

### **Project Flow – AI Project Management App (Party Rock + Bedrock) - [Github](#)**

- Built a serverless AI-powered project management tool enabling users to plan, track, and summarize projects dynamically.
- Configured AWS resources, managed authentication, and integrated prompt workflows for real-time responses.

### **AWS S3 Static Website Hosting - [Github](#)**

- Deployed a static website using Amazon S3, configured bucket policies, and set up CloudFront (CDN) for global content delivery.
- Integrated Route 53 DNS for domain mapping and ensured HTTPS security via AWS Certificate Manager.

### **AWS EC2 Windows RDP Deployment - [Github](#)**

- Provisioned EC2 Windows Server instances configured security groups and key pairs for secure Remote Desktop Protocol access.
- Demonstrated end-to-end provisioning, configuration, and connectivity for remote desktop management in AWS.

### **VPC Architecture with Public & Private Subnets – 2-Tier Setup - [Github](#)**

- Designed and implemented a custom VPC with public and private subnets, Internet Gateway, NAT Gateway, and Bastion Host.
- Deployed web and database tiers in separate subnets, configured route tables, NACLs, and security groups to simulate a production-grade secure environment.

## **EDUCATION**

### **Master's in information systems & technology**

**Dec 2025**

University of North Texas, Denton, Texas

### **Bachelor of Technology, Engineering**

**July 2021**

CVR College of Engineering and Technology, India