# YASH KUMAR LAL DAS

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**GITHUB** - github.com/YashKumarLalDas **| LINKEDIN** - linkedin.com/in/laldasyash/ **| PORTFOLIO** - yashkumarlaldas.vercel.app/

## PROFESSIONAL SUMMARY

Software Engineer with **3+ years of experience** supporting and improving **production-grade cloud systems** in 24×7 enterprise environments. Strong background in **Python automation, Linux operations, incident response, and observability**, with hands-on experience building **AWS serverless architectures, Kubernetes platforms, and secure cloud networks**. Proven ability to reduce MTTR, automate operational workflows, and operate reliable systems at scale.

## WORK EXPERIENCE

***Data Analyst*** **-** *University of North Texas* *Mar 2024 - Dec 2025*

- Automated reporting workflows using **Excel and RefAnalytics**, delivering **70+ reports over 18 months** and reducing turnaround time by ~40%.
- Produced **4 recurring reports per month** by standardizing formats across **6 departments**, improving consistency and delivery reliability.
- Monitored university web applications using **Siteimprove**, ensuring compliance, accessibility, and content quality.
- Built dashboards tracking usage trends, improving visibility and reducing manual operational effort.

***Systems Engineer*** **-** *Tata Consultancy Services* *Jul 2019 - Dec 2023*

- Supported **24×7 cloud production systems** in distributed **Linux** environments using **PuTTY (SSH)**, maintaining **~98% SLA** for client-facing platforms.
- Triaged **150+ alerts per month** using **Global Event Management (GEM)** and **Grafana**, improving incident response efficiency and reducing **MTTR by ~25%**.
- Automated operational checks and log analysis using **Python**, reducing manual investigation effort by **~40%** during on-call rotations.
- Performed **root-cause analysis (RCA)** and incident documentation through **Salesforce ticketing**, contributing to **~15% fewer repeat incidents**.
- Executed operational support activities including **firewall checks, access validation, service restarts, and patch coordination**, collaborating with application, network, and escalation teams to restore service and maintain system stability.

## SKILLS

**Software Engineering & Automation:** Python, Bash, Git, Automation Tooling

**Cloud & Infrastructure:** AWS (EC2, S3, VPC, Route 53, IAM, CloudFront), Networking, DNS, Terraform (IaC)

**DevOps & CI/CD:** CI/CD Pipelines, GitHub Actions, Jenkins, Deployment Validation, Salesforce

**Containers & Reliability:** Docker, Kubernetes (EKS), Helm, Autoscaling, High Availability

**Observability & Operations:** CloudWatch, Prometheus, Grafana, Logging, Alerting, Incident Response, GLobal Event Management

**Operating Systems:** Linux, Windows Server

## EDUCATION

**University of North Texas, TX** **Dec 2025**
*Master of Science, Information Systems & Technology | University of North Texas* *GPA: 3.6*
***Related Coursework****: Information Security Management, Information Technology Security, Network Security*

## PROJECTS

**Kubernetes Observability & Auto-Scaling Platform - GitHub**

- Developed a containerized platform using **Docker, Kubernetes, Prometheus, Grafana, Helm, and HPA** to demonstrate metrics collection, autoscaling, and self-healing through load testing and failure simulations.

**AWS Serverless Activity Ingestion Platform - GitHub**

- Built a serverless ingestion pipeline using **AWS Lambda, Python, RDS (MySQL), DynamoDB, S3, IAM, VPC, and CloudWatch** to process event data with idempotency, observability, and least-privilege access.

**Secure AWS VPC Two-Tier Architecture - GitHub**

- Designed a secure two-tier network using **AWS VPC, public/private subnets, route tables, IGW, NAT Gateway, Security Groups, and NACLs**, validated through reachability and isolation testing.

**AI-Powered Project Planning Platform (Bedrock / PartyRock) - GitHub**

- Built a GenAI-assisted workflow using **Amazon Bedrock, PartyRock, and Python** to generate structured, consistent project plans from user inputs.

**AWS Cloud Projects – EC2: GitHub , S3: GitHub**

- Implemented secure Windows EC2 (RDP access with controlled Security Groups) and deployed a static website on Amazon S3 using bucket policies for public read-only access, demonstrating core compute, storage, networking, and access control.