Yash Kumar Jain

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Projects

Data Pipeline | *AWS Glue, S3, RDS, EC2, IAM Roles*   **January 2025**
- Designed and implemented a data pipeline using AWS Glue, S3, RDS, and EC2 with IAM roles.
- Automated data extraction, transformation, and loading (ETL) for seamless processing and storage in RDS.
- Optimized pipeline performance, ensuring scalability, security, and efficient data management on AWS infrastructure.
- Monitored and troubleshot data pipeline operations using CloudWatch, ensuring high availability and reliability of the system.

Data Monitoring | *Ubuntu, Docker, Node Exporter, Prometheus, Grafana*   **November 2024**
- Implemented a data monitoring system using Docker, Node Exporter, Prometheus, and Grafana for real-time insights.
- Configured Docker containers to run monitoring tools, ensuring efficient and scalable infrastructure for data collection.
- Designed and deployed monitoring dashboards to visualize system metrics and troubleshooting efficiency.
- Automated alerts and metric collection, ensuring proactive issue detection across monitored infrastructure.

Jenkins Server | *Jenkins, AWS EC2*   **September 2024**
- Configured and deployed a Jenkins server on AWS EC2 for CI/CD automation and efficient DevOps workflows.
- Managed Jenkins pipelines for automated builds, testing, and deployments, enhancing software delivery speed.
- Implemented security on Jenkins and AWS EC2, ensuring secure access control and compliance with industry standards.
- Secured Jenkins with user roles, webhooks, and AWS integrations to streamline development and operations.

Highly Available Environment | *AWS EC2, Lambda, ASG, Load Balancer, Nginx*   **July 2024**
- Deployed a fault-tolerant architecture with AWS, ensuring high availability and seamless failover for critical applications.
- Configured autoscaling and load balancing to enhance fault tolerance, ensuring minimal downtime and performance.
- Optimized Nginx reverse proxy for efficient traffic management, improving application scalability and resilience on AWS.
- Monitored infrastructure health and performance using CloudWatch, ensuring reliability, availability, quick resolution.

Certifications

Azure Administrator Associate	*Azure*	**April 2025**
AWS Academy Cloud Architecting	*AWS*	**November 2024**
Azure Fundamentals	*Azure*	**July 2024**
AWS Academy Cloud Foundations	*AWS*	**May 2024**

Technical Skills

Programming Languages: Python, Java, C++, JS

Cloud Computing: AWS, Azure, SaaS, PaaS, IaaS

Containerization: Docker, Kubernetes

DevOps Tools: Linux, Python Scripting, Git, Jenkins, Terraform, Ansible, CI/CD

Monitoring: Prometheus, Grafana

DBMS: MySQL, Oracle Database, PostgreSQL

Frameworks: Spring, Django, Flask

Other Tools: Ubuntu, Network Troubleshooting, Firewalls

Education

Lovely Professional University   **2022 – 2026**
Bachelor of Technology - Computer Science and Engineering — CGPA: 7.4   *Phagwara, Punjab*

Gangadhar Meher Higher Secondary School   **2020 – 2022**
12th with Science — Percentage: 74.4%   *Sambalpur, Odisha*

Saraswati Shishu Vidya Mandir   **2019 – 2020**
10th — Percentage: 76.8%   *Tusura, Odisha*