Krishna Kumar Sah

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Summary

Research-oriented and adaptable AI Solutions Engineer with proven expertise in building microservices-based systems, real-time streaming platforms, and AI-driven applications using DevOps and cloud practices. Skilled in deploying containerized AI workflows on Ubuntu servers, developing scalable ETL pipelines, and integrating continuous deployment strategies. Passionate about solving complex data challenges and implementing cutting-edge AI technologies to optimize performance, resilience, and scalability.

Experience

Software Engineer
Premium® Technologies, Kathmandu, Nepal
2024–Present

- Designed scalable AI workflows using Python, SQL, and cloud platforms.
- Achieved 30% increase in query performance via optimized database solutions.
- Developed CI/CD pipelines for ML model integration and deployment.
- Managed large datasets using MongoDB and Snowflake.
- Set up Ubuntu servers with Docker/Kubernetes to host AI microservices.
- Automated deployments using Ansible, Jenkins, and AWS.
- Deployed a core banking project with ASP.NET Core microservices for client delivery.

Data Engineer
Pioneer Associate Nepal, Lalitpur, Nepal
2023–2024

- Built ETL pipelines for large-scale data migration and integration.
- Conducted QA for AI-driven system data integrity.
- Optimized databases using advanced SQL techniques.
- Supported business intelligence through ML model implementation.

Junior Cloud Engineer
Aegis Software Pvt. Ltd., Kathmandu, Nepal
2022–2023

- Managed AWS infrastructure for software and AI projects.
- Automated DevOps workflows using Jenkins, Docker, and Kubernetes.
- Maintained AI-driven applications in Python and Java.
- Deployed microservices using NGINX reverse proxy and Docker containers.

Education

Bachelor's in Computer Science
C. V. Raman Global University, Bhubaneswar, India
2019–2023
CGPA: 8.74 / 10

Skills

- **Programming Languages:** Python, Java, C, C++, Go, SQL, Node.js, React.js, TypeScript
- **Databases:** MongoDB, PostgreSQL, SQL Server, Snowflake

- **DevOps Tools:** Jenkins, Docker, Kubernetes, AWS, Ansible,Git/GitHub
- **Server/Deployment:** Ubuntu Server, NGINX, CI/CD, Docker Compose
- **Data Engineering:** ETL Pipelines, Data Migration, Database Optimization
- **AI/ML Tools:** TensorFlow, Scikit-learn, Cloud AI Services, LLM-based Visualizations

Certifications

- **AWS Cloud Quest: Cloud Practitioner** – AWS (Jul 2024 – Jan 2034)
- **Data Warehousing Workshop** – Snowflake (Jul 2024)
- **CCNA: Enterprise Networking, Security, and Automation** – Cisco (Jan 2022)
- **CCNA: Switching, Routing, and Wireless Essentials** – Cisco (Aug 2021)
- **AWS Academy Graduate – Cloud Foundations** – AWS (Apr 2021 – Jan 2034)
- **CCNA: Introduction to Networks** – Cisco (Mar 2021)
- **PCAP: Programming Essentials in Python** – Cisco Networking Academy
- **SQL Advanced Certification** – HackerRank
- **Getting Started with DevOps** – AWS

Strengths

- **Problem-Solving:** Reduced software issues by 40% through debugging and redesign.
- **Adaptability:** Integrated new AI frameworks with minimal downtime.
- **Collaboration:** Led cross-functional teams to deliver AI solutions early.

Research & Projects

360° Sports Streaming Microservices App using DevOps

- Designed real-time distributed streaming with Docker and Kubernetes.
- CI/CD pipelines via Jenkins integrated with AWS.
- Incorporating AI-optimized service routing and benchmarks.

ETL Data Migration and Optimization

- Migrated data to Snowflake and PostgreSQL using custom ETL flows.
- Enhanced performance with optimized queries and indexing.

AI-Powered LLM Dashboard for Business Insights

- Built full pipelines using Python, MongoDB, and React.js.
- Used LLMs to auto-generate dashboards, summaries, and insights.
- Applied ML models for anomaly detection and trend analysis.

Ubuntu Server Setup for AI/ML and SaaS Deployments

- Configured Dockerized AI microservices on Ubuntu with Kubernetes.
- Integrated GitHub Actions/Jenkins with AWS infrastructure.
- Monitored with Grafana + Prometheus + LLM-based alerts.
- Deployed SaaS (Nextcloud) and PostgreSQL replication server.

ASP.NET Core Banking Microservices Deployment

- Delivered ASP.NET microservices for core banking clients.
- Integrated with SQL Server, RabbitMQ, and Docker Swarm.
- Automated builds and deployments using Jenkins pipelines.