Ashok Nath

Cloud Engineer

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Summary

Professional, experienced, passionate and results-oriented cloud engineer with hands-on experience in deploying **scalable** applications using **cloud platform** specifically AWS. I've built CI/CD pipelines with Jenkins and GitHub Actions, managed containerized environments with Docker. I also automated workflows using bash scripts and cron jobs and observed applications using monitoring tools such as Datadog, Grafana, Nagios, and StatsD.

Work experience

Associate AWS Cloud Engineer
Jan 2023 - Aug 2023

CodeRush Pvt. Ltd. (Lalitpur, Nepal)

- Hands-on experience with AWS services including **EC2, Lambda, ECS, S3, RDS, DynamoDB, CloudFront, and IAM**, enabling robust cloud-native architecture.
- Designed scalable backend solutions using **S3, EBS, EFS**, and analytics tools like **Kinesis and Redshift** for high-volume data processing.
- Implemented monitoring and visualization using **StatsD, Graphite, Grafana** to optimize application performance.
- Utilized **Datadog and Nagios XI** for real-time infrastructure monitoring, log management, and custom dashboard creation to enhance observability and issue resolution.
- Developed CI/CD pipelines with **Jenkins** across development stages and maintained version control.
- Collaborated with team using **Git, GitHub,** and automated the project with **GitHub Actions** for workflows and deployments.

Junior DevOps Engineer
Jun 2021 - Oct 2022

KSystem (Remote)

- Developed scalable applications using **Java**, **Python**, and **JavaScript**, aligning solutions with client requirements.
- Collaborated with **cross-functional teams** to gather requirements, design features and end-to-end software delivery.
- Designed, **coded**, **tested**, and **debugged** components across multiple layers of enterprise applications.
- Participated in **code reviews** to uphold quality, security, and performance standards.
- Created and maintained **technical documentation**, including specifications, **API** guides, and test protocols.
- Followed **Agile methodologies** and used **Git & GitHub** for version control and team collaboration.

System & Database Administrator
Apr 2018 - Nov 2020

CloudSewa NP (Kathmandu, Nepal)

- Deployed web services using **Nginx, Apache** web servers in **Ubuntu** and **IIS (Windows) servers**,
- Managed resolving caching issues.
- Monitored **Linux** as well as **Windows servers** and analyzed server **logs** via **cron jobs** and **shell scripts**.
- Maintained **MS SQL Server** performance with **SSMS tools** (Profiler, Extended Events), backups, indexing, and query optimization.
- Designed and implemented **disaster recovery plans** using **WAL archive logs**, covering **RTO**, **RPO**, and **Point-In-Time Recovery (PITR).**
- Conducted internal training for **UAT deployments**, server updates, and **SQL** maintenance routines.
- Documented **DNS-to-database** query paths for eCommerce systems, improving issue traceability and response times.

Education

Masters in Information Technology
Jan 2024 - May 2025

Atlantis University (Miami, FL)

Bachelors in Computer Engineering
Aug 2018 - Jul 2022

Pokhara University (Pokhara, Nepal)

Projects

Cloud Resume Website (Hosted in Amazon S3) — autocloudmate.com
- Configured **S3** buckets with versioning, lifecycle rules, and storage class optimization.
- Set up **cross-region** replication for **high availability** and compliance.
- Automated S3-to-S3 data transfer using **Batch** Operations.

CI/CD CodePipeline — AWS based Automated Project Deployment
- Created **AWS CodeCommit** repositories and configured **Git** credentials for secure access.
- Set up **CodePipeline** with integrated **CodeBuild** and manual approval stages.
- Installed **CodeDeploy agent** on EC2 and connected deployment via S3 storage.
- Automated **CI/CD** pipeline to build and deploy code on every commit.

Wordpress Website Deployment in EC2 with MySQL (RDS)
- Launched and configured **EC2** instances with **LAMP stack**.
- Provisioned **RDS** for database management and integrated it with WordPress.
- Managed **DNS** using **Route 53** and secured domains with **SSL** via Certbot.
- Deployed **Nagios XI** on EC2 to monitor instances, domains, and web endpoints.

OCR Android — Image to Text Application
Java Android SDK, Firebase, SQLite,

- Built Android app using **Java** for real-time image-to-text conversion with Tesseract OCR & Integrated camera and gallery input for image selection.
- Applied image preprocessing to improve **OCR accuracy** and enabled multilingual text extraction, save, and share features.

Skills

Professional Skills:
- **Programming Languages:** Python, Java, C & C++
- **Web Stack:** HTML, CSS, JavaScript
- **Database Management:** MySQL, MongoDB, PostgreSQL
- **Cloud Computing:** AWS, Azure, Google Cloud, Oracle OCI
- **DevOps Tools:** Docker, Jenkins, Kubernetes, Terraform, Datadog, Grafana, Nagios
- **Software Development:** Agile, Scrum
- **Networking:** Subnetting, TCP/IP, DNS, VPN

Soft Skills:
- **Communication**: Effectively conveyed ideas and technical concepts across teams and stakeholders.
- **Teamwork & Collaboration**: Worked seamlessly in cross-functional teams to achieve project goals.
- **Problem-Solving & Troubleshooting**: Quickly identified and resolved technical issues to ensure smooth operations.
- **Leadership & Time Management**: Led tasks efficiently while meeting deadlines through strong prioritization.
- **Adaptability**: Adjusted rapidly to changing technologies and project requirements in dynamic environments.

Languages

English - Proficient   **Nepali** - Native   **Hindi** - Fluent

Extra Curricular Activities

Cloud Platform Job Simulation   April 2025 - May 2025
Verizon

- Completed a job simulation involving building a hypothetical new VPN product for Verizon's Cloud Computing team.
- Used command line Python to test whether Verizon's VPN met the cloud-native traits, i.e. redundancy, resiliency and least-privilege.
- Researched approaches to achieve application security and communicated insights in a PowerPoint Presentation.

References

Available Upon Request