**NIPUN YADAV**

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Cloud & DevOps Engineer | AWS | Python | Serverless | Automation | Cost Optimization | CI/CD | AI-Powered Solutions | Infrastructure as Code

**OBJECTIVE :**

**Result-driven Cloud & DevOps Engineer** with hands-on expertise in AWS, Python automation, and CI/CD pipelines. Proven success in serverless architecture design, cost optimization, and deployment automation. Experienced in cloud migration, monitoring, and AI-integrated solutions leveraging AWS Lambda, API Gateway, and CloudFront. Passionate about scalable cloud innovation in fast-paced environments like AWS Professional Services and Amazon Industries**.**

**EDUCATION :**

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| --- | --- | --- | --- |
| B. Tech (Biotechnology) | 2023 | NSUT, Dwarka, Delhi | 6.51 CGPA |
| Class XII (CBSE) | 2018 | Himalaya Public Senior Secondary School, Rohini, Delhi | 73.2% |
| Class X (CBSE) | 2016 | Sona Public School, Samaypur, Delhi | 8.20 CGPA |

**WORKING EXPERIENCE :**

**AYE FINANCE LTD, Gurugram (Assistant Manager, IT- Cloud)**  **June. 23 – Now**

In this organization, I've excelled as a dedicated full-time employee, specializing in automating AWS cloud using Python and Devops tools & implement it on daily tasks.

* Maintain the availability & managing the services of all Production, UAT, Pre-Prod environment. & Vendor coordination for deployment/changes.
* Monitored **AWS EC2, RDS, and Azure environments**, tracking **CPU, memory, and storage usage** in real time to **prevent outages and optimize performance**. Enforced **AWS & Azure cost optimization strategies**, reducing **cloud expenses by 30%** through proactive resource management and automation.
* Maintain & review the antivirus security to organization assets using third party tool Seqrite.
* Review & availability of the Audit reports & ensure the creation of server backups as per the backup policy.
* Designed and executed **automated cloud monitoring solutions** using **Python and AWS Lambda**, managing services including **EC2, RDS, S3, VPC Flow Logs, WAF, API Gateway, CloudTrail, CloudWatch, Load Balancers, IAM, and Azure VM dashboards**. Improved **efficiency by 10x** through automation.
* Implementing the Devops methodology for deployment of LMS/LOS UAT and Pre-Prod environment & also implement in Digital business project.
* Implement lambda function to extract user configuration (password policy) details of Windows & Ubuntu OS using AWS SSM & Python.
* Implement process improvements, explore the new technologies, using AI tools for automation solutions resulting increment of 10x productivity.
* Creation of Python models using the Gemini API to validation/correction of excel reports, implement the communication of AI model on Ubuntu, validation of image/PDF for evidence verification, review/manage tags (attach/delete/review) on cloud services & implement Lambda function for creation of EC2, RDS backups as per the policy.
* Infrastructure setup/ solution design for ADHOC basis requirement.

**PROJECTS :**

# Automated AWS resource management with Python & Lambda, reducing cloud operational overhead by 60% :

# Created a Python model to export the current month's AWS EC2 backups to an S3 bucket.

# Systematized identification and transfer of backups older than six months to Glacier-tier storage and deletion from EC2 backup console & S3.

# Implemented logs management and email notification alerts, reducing AWS backup storage costs by approximately 95%.

1. **a serverless FTP replacement using S3 and API Gateway, cutting storage costs by 80% :**

* Replaced legacy FTP/SFTP with a scalable, cost-efficient S3 solution using Lambda, API Gateway, CloudFront & Secrets Manager.
* Enabled browser-based file management (upload, download, folder ops, zip downloads) with secure session-based auth & API key validation.
* Achieved pay-per-use model vs. fixed costs, improving scalability, security, and reducing storage expenses.

# Led DevOps CI/CD deployments with Jenkins and GitHub Actions ensuring zero-downtime rollouts :

# Implemented robust DevOps pipelines leveraging GitHub Actions and Jenkins to deploy diverse applications. These include a Java-based JBoss LMS/LOS with zero downtime in UAT/pre-prod, a Dockerized digital business project on Ubuntu using Nginx and MySQL, all configured via Docker and CI/CD pipelines.

1. **Designed AI-based validation systems for Excel, image, and PDF verification, improving workflow 10× efficiency :**

# Built AI-powered automation on AWS Lambda using Python, integrating Google Gemini, Veo3 AI, YouTube Studio API, and a trading API.

# Automated creation of 10-sec animated videos with audio/metadata and scheduled YouTube uploads (6 AM & 7 PM).

# Enhanced a Flask-based stock portfolio tracker to deliver hourly price updates and daily summaries using Pandas and AWS Scheduler

# Automated MIS Report Generation & Email Dispatch System:

# Designed an automated reporting system via Python, AWS (S3, SNS, Secrets Manager, CloudWatch) for secure data handling & real-time monitor.

* Integrated Oracle DB for structured retrieval with multi-threading and applied Google API for email authentication.
* Automated periodic tasks with Python’s scheduling library, ensuring efficient error handling, retry mechanisms, and reduced manual workload.

# Modernizing Legacy Applications with AWS Serverless Architecture:

# Built a serverless web app with HTML/CSS/JS frontend and Node.js AWS Lambda backend for secure data handling via CloudFront,

* Routed /submit actions through CloudFront to hide API endpoints and prevent direct exposure.
* Automated database insertion with serverless architecture, ensuring scalability, performance, and security.

**POSITION OF RESPONSIBILITIES & CERTIFICATES**

* Recognized four times as an "**AYE Ka Tara**"& three times as a **Service Excellence** award in the Aye Finance ltd.
* Verzeo recognize as **a Campus Ambassador** & **Mentor** in the **'DESH KE MENTOR'**.
* **Google Cloud Cybersecurity & DevOps on AWS (Coursera)** : Covered CI/CD, cloud security, automation & cloud computing essentials.
* **AWS Cloud Practitioner, Technical Essentials & Compute Services** – Gained foundational expertise in AWS services and cloud architecture.
* **Excel, MySQL, Python (Great Learning)** – Strengthened technical proficiency for data analysis and automation.
* **Prompt Engineering (Simplilearn)** – Enhanced expertise in optimizing AI model responses for automation workflows.
* **AWS ETC Program Course Badges** – Earned multiple badges, further demonstrating expertise in cloud technologies and automation.

**SKILLS**

* **Cloud & Infrastructure Automation:**  Proficient in **AWS (EC2, RDS, S3, VPC, CloudWatch, Load Balancers, IAM, API Gateway, CloudFront, AWS Transfer family, Architecture),** Serverless Applications**, Azure** for efficient management, Cloud Security, cost optimization.
* **Scripting & Development:** Python Automation, Shell scripting, cron jobs, AWS EventBridge, Lambda functions, Rest API integration.
* **CI/CD & DevOps Tools:** Experienced with Docker, Jenkins, GitHub Actions, CI/CD Pipelines, Ansible.
* **Monitoring & Security:** Skilled in AWS CloudTrail, SSM, Seqrite Antivirus, and server backups, ensuring cloud security and compliance.
* **Project & Data Management:** Proficient in MySQL,API’s, Jira, Microsoft 365, Google workspace, Linux commands in Ubuntu, Window servers.
* **AI & Prompt Engineering:** Expertise in crafting effective prompts for Copilot, ChatGPT, and Gemini to enhance automation workflows.