ARUNESH DWIVEDI

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Summary

Experienced DevOps Engineer with practical knowledge in deploying scalable and secure systems using Docker, Kubernetes, and Terraform. Proficient in automating workflows with Jenkins, optimizing AWS cloud infrastructure for better performance and security, and working collaboratively with cross-functional teams.

Technical Skills

- **DevOps Tools:** Docker, Kubernetes, Jenkins, Ansible, Terraform, Git, CI/CD Pipelines.
- **Cloud Platforms:** AWS (EC2, IAM, S3, RDS, VPC, Lambda).
- **Programming & Scripting:** C++, Java (familiar), Python, Bash, YAML.
- **Monitoring & Logging:** ELK Stack, Prometheus, Grafana.
- **Databases:** MySQL, MongoDB, RDS.
- **Networking & Security:** VPC, NAT, Load Balancing, DNS, SSL/TLS.

Professional Experience

Associate Engineer Trainee — **ITGeo, Onsite**
Jan 2022 – May 2022 — *Internship*

- Resolved 10+ Git-related workflow issues, reducing bottlenecks and improving development time by 15%.
- Actively participated in Agile workflows, ensuring sprint tasks were completed 100% on time with effective team collaboration.
- Optimized Git version control processes, contributing to a 15% improvement in development efficiency.

Projects

Resilient Cloud Infrastructure with AWS VPC — ⭘ **Project Link**

- Designed a fault-tolerant multi-AZ AWS VPC architecture, achieving 99.99% availability and reducing error rates by 30%.
- Implemented NAT Gateways and Load Balancers, enhancing traffic management efficiency by 30%.
- Reduced response time by 20% and enhanced compliance by integrating IAM roles, VPCs, and encrypted S3 storage into AWS infrastructure.

2048 Game Application on Amazon EKS — ⭘ **Project Link**

- Containerized a 2048 game app using Docker and deployed it on Amazon EKS with Kubernetes, ensuring scalability and high availability.
- Set up and deployed EKS clusters, achieving a 30% reduction in downtime.
- Collaborated in the implementation of auto-scaling policies to dynamically manage fluctuating user traffic, resulting in enhanced system performance and seamless user experience.

Education

N.I Lobachevsky State University — **2023 – Present**
M.S. in Artificial Intelligence and Data Analysis

- **Key Subjects:** Machine Learning, Deep Learning, Natural Language Processing, Big Data Analysis, AI Ethics, and Advanced Statistics.

N.I Lobachevsky State University — **2019 – 2023**
B.Tech. in Computer Science & Information Technology — *GPA: 4.03/5.00*

- **Key Subjects:** Algorithms, Data Structures, Computer Networks, Operating Systems, Databases, and Software Development.

Awards & Recognitions

- **Hackathon:** Contributed to innovative solutions across various domains, collaborating with a diverse team to design, develop, and implement a working prototype.

- **Cultural Event Host:** Successfully led 5+ cultural events, increasing student participation by 30%, contributing to campus participation at N.I Lobachevsky University.

- **Academic Excellence:** Ranked among the top 10% of the class for outstanding academic performance.

- **Teaching Assistant:** Taught and mentored undergraduate students from three different countries, fostering a collaborative learning environment and enhancing cross-cultural communication skills.