Ashan Pathiranage | Senior Site - Reliability Engineer

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Senior Site Reliability Engineer with 3+ years of expertise in cloud architecture, infrastructure automation, and AI-driven solutions. Demonstrated success in optimizing AWS infrastructure, implementing generative AI solutions, and streamlining DevOps practices. Specialized in developing innovative solutions using ML/DL for predictive system maintenance and automated incident response. Proven track record in reducing operational costs while enhancing system reliability and performance.

PROFESSIONAL EXPERIENCE

Senior Site Reliability Engineer | GTN Group   April 2024 – present
https://gtngroup.com

- Architected and optimized GitLab CI/CD pipelines, reducing deployment times and enhancing release efficiency through automated testing and deployment strategies
- Implemented comprehensive Datadog monitoring and automated incident response protocols, significantly improving system resilience and response times
- Led cloud cost optimization initiatives, resulting in optimized resource utilization while maintaining high availability
- Designed and managed multi-region AWS infrastructure with robust disaster recovery solutions
- Mentored junior engineers and facilitated collaboration between development and operations teams

Site Reliability Engineer | GTN Group   April 2021 – April 2024
https://gtngroup.com

- Successfully led AWS server migration from Ireland to North Virginia, optimizing EC2, RDS, and VPC configurations
- Implemented infrastructure as code using Terraform, Packer, and Ansible, ensuring consistent and repeatable deployments
- Developed and maintained GitLab CI/CD pipelines for Java applications, improving deployment reliability
- Configured comprehensive Datadog monitoring solutions with custom dashboards and alerting
- Conducted root cause analysis for critical incidents and implemented preventive measures

Network Engineering Intern | N-Able (pvt) Ltd   June 2019 – Dec 2019
https://www.n-able.biz/

- Contributed to metro Ethernet project implementation
- Enhanced base station functionality within Self-Organizing Network (SON) project
- Focused on self-optimization, self-configuration, and self-healing network capabilities

Management Trainee| Peoples Bank   Dec 2015 - Aug 2016

- Developed strong customer relationships by addressing inquiries and providing excellent service, contributing to increased customer satisfaction.

SKILLS & INTERESTS

Cloud Platforms	AWS (Solution Architect Associate Certified), GCP
Infrastructure & DevOps	Terraform, Packer, Ansible, Docker, Kubernetes
CI/CD & Monitoring	GitLab, Bamboo, Datadog
Programming	Python, Java, JavaScript
Frameworks	React.js, Spring Boot, FastAPI, JavaFX, PyQT
Operating Systems	Linux (RedHat Certified), Windows
Databases	MySQL, EDB, Oracle
Specialized Skills	Machine Learning, Deep Learning, Generative AI

EDUCATION

2016-2021	**B.Sc (Hons) Engineering in Electronic and Telecommunication| University of Moratuwa** GPA: 3.2
2011-2015	**Advanced Level	Richmond College, Galle** 3A's Z-Score: 2.3875 District Rank: 37 Island Rank: 325

NOTABLE PROJECTS

AI Bruno (Ongoing)	- Developing predictive system failure detection using generative AI, ML, and DL - Implementing AI-powered chatbot for system diagnostics and user support - Integrating with existing monitoring systems for enhanced predictive capabilities
GitLab Pipeline Automation	- Architected and implemented end-to-end CI/CD pipelines for Java and C++ components, incorporating automated build, test, and deployment stages with environment-specific configurations - Integrated infrastructure as code using Terraform and Packer for automated provisioning, while implementing Ansible for configuration management across multiple environments - Created reusable pipeline templates and shared libraries for standardization, including automated quality gates and security scanning
AWS Infrastructure Modernization	- Led multi-region server migration (Ireland to North Virginia and Singapore) - Implemented infrastructure as code practices - Enhanced security posture and operational efficiency
Advanced Monitoring Implementation	- Deployed comprehensive Datadog monitoring solution including APM - Created custom dashboards and alerts for proactive system management - Implemented synthetic monitoring and centralized log management
Component Monitoring and Management Tools	**Component Watcher (GitHub)**: Developed a monitoring tool that tracks component states, process health, and port status in real-time, featuring automated notifications **Component Inventory (GitHub)**: Created a centralized system for tracking and managing software components across different environments, improving resource management **Instance Scheduler (GitHub)**: Built an automated AWS instance scheduling solution to optimize resource usage and reduce costs during off-hours **FTP File Downloader (GitHub)**: Implemented an automated FTP file transfer solution with error handling and logging capabilities

CERTIFICATIONS

Red Hat Certified System Administrator (Certification ID - 220-087-555)

AWS Solution Architect Associate Certification (AWS SAA-C03)

Network Essentials 1.0 (Cisco Networking Academy)

Completed React, Python and JAVA courses on Udemy.

REFERENCES

Namal Suranga
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