Ronal Raj

DEVOPS ENGINEER/CLOUD ENGINEER

 Noida, Uttar Pradesh, India ronalraj2002@gmail.com 7631318813 https://www.linkedin.com/in/ronal- raj-882071204/

EDUCATION

Bachelor of Technology: Computer Science (2019-2023)
IEC College of Engineering and Technology • Greater Noida, India • 9.0
Senior Secondary Education
Valley View School • Jamshedpur, India • 2019 • 8
Secondary Education
Valley View School • Jamshedpur • 2017 • 9.2

EXPERIENCE

Junior DevOps Engineer
Remote State

Noida, India

- Tuned Services to Optimize cost
- Deployed various projects to container services and Kubernetes engine of AWS, AZURE, and GCP successfully
- Integrated Prometheus and Grafana to scrap custom metrics and turned them into meaningful visualizations
- Automated Infrastructure and Deployments using Terraform
- Ensured Availability of Environment and Production systems usually deployed on AWS EKS or ECS by integrating autoscaling Group

Connect-Up (Under Remote State)

- Successfully deployed and orchestrated a production environment on Google Kubernetes Engine (GKE) to host a complex set of microservices, ensuring high availability, scalability, and fault tolerance.
- Leveraged Kubernetes Deployment and Service objects to manage the lifecycle of microservices, enabling seamless updates and automatic rollbacks
- Integrated Cloudflare for domain routing and DNS management, ensuring efficient and secure traffic distribution to the GKE cluster
- Configured and utilized Prometheus, a monitoring and alerting toolkit, to collect and store metrics from the GKE cluster and microservices, enabling proactive issue identification and resolution.
- Designed and implemented CI/CD pipelines using GitHub Actions to automate the building, testing, and deployment processes, reducing manual intervention and ensuring faster and more reliable deployments.

Store-X AND Story-Magic (Under Remote State)

- Planned and implemented cost-saving strategies for cloud infrastructure, resulting in almost 2 USD per year cost
- Configured ECS,ECR,S3,IAM policies and RDS.
- Integrated ECR Inline policy to remove untagged images after 1 week, resulting in cost optimization.
- Configured S3 One-Zone-Ia with bucket policy to remove images after 1 month.
- Built infrastructure as code(Terraform), enabling faster and more consistent deployments.
- Setup CI-CD pipeline using GitHub Actions for automation
- Configured load balancer User-Agent routing to route traffic based on device type (mobile or desktop) using the same DNS

Prudential (Under Remote State)

- Integrated Polaris security scanning tool into the Jenkins CI/CD pipeline to automate security checks during the software development process
- Designed and deployed a Kubernetes Pod for Kafka pub-sub messaging, enabling efficient and reliable communication between distributed microservices
- Successfully planned and executed the migration of user-stored Azure Database to Azure AD, ensuring a seamless transition for end-users while enhancing security through Two-Factor Authentication (MFA)

UI-UX (Under Remote State)

- Proficiently deployed containerized applications on AWS ECS, leveraging Docker containers for efficient and scalable deployments
- Demonstrated expertise in integrating AWS ECS with other AWS services like AWS Fargate, ALB (Application Load

Balancer), and AWS IAM (Identity and Access Management)
• Implemented auto-scaling policies for ECS services, ensuring applications can dynamically scale based on demand and load.
• Implemented CI/CD pipelines for AWS ECS deployments using tools like github actions, automating the release process.

Circonomy (Under Remote State)

• Successfully installed and configured NGINX Ingress Controller on Azure Kubernetes Service (AKS), enabling efficient and reliable traffic routing to Kubernetes services.
• Implemented HTTPS/TLS termination using Let's Encrypt, securing communication between clients and the AKS cluster by automatically obtaining and renewing SSL/TLS certificates..
• Successfully orchestrated and deployed a production-grade application stack on Azure Kubernetes Service (AKS), leveraging Kubernetes for container orchestration.
• Configured and managed CI/CD pipelines using github actions to automate the deployment process, reducing manual intervention and improving deployment efficiency.
• Implemented monitoring and logging solutions for AKS using tools like Azure Monitor and Grafana, enabling proactive monitoring and real-time issue identification.
• Ensured AKS cluster security by implementing Role-Based Access Control (RBAC), Network Policies, and Secrets Management for sensitive data.

DevOps Engineer Intern
KayaKalp NGO

Bihar, India

• Worked with the Backend team to understand needs and provide excellent cloud services
• Designed and developed forward-thinking systems that meet user needs and improve productivity
• Corrected, modified, and upgraded services to improve performance

Content-Management-System (Under KayaKalp)

• Configured and optimized AWS Elastic Beanstalk environments to ensure high availability, fault tolerance, and auto-scaling capabilities for the CMS application
• Demonstrated proficiency in monitoring and analyzing application performance using AWS CloudWatch, making data-driven decisions to optimize the application's performance and resource utilization
• Leveraged AWS Elastic Beanstalk's integration with Amazon RDS to set up and manage the CMS application's database, ensuring data integrity and reliability.
• Planned and implemented cost-saving strategies for cloud infrastructure, resulting in a 40% reduction in monthly spending.
• Secured the CMS application on AWS Elastic Beanstalk by configuring appropriate security groups, IAM roles, and HTTPS/SSL certificates for data encryption in transit

CERTIFICATIONS
AWS CLOUD PRACTITIONER
AWS SOLUTION ARCHITECT ASSOCIATE
CERTIFIED KUBERNETES ADMINISTRATOR

ACHIEVEMENTS
Secured 5th position in a Coding hackathon on GEEK FOR GEEKS
Secured 1 place in Technical Paper Presentation at College Fest

ARTICLES PUBLISHED
• Azure Kubernetes Services: Deploying NGINX Image To AKS Using Azure CLI and Advanced Kubectl Commands -
https://www.geeksforgeeks.org/deploying-nginx-image-to-aks-using-azure-cli-and-advanced-kubectl-commands/
• Kubernetes - How to Run Master-Slave Architecture Locally –
https://www.geeksforgeeks.org/how-to-set-up-master-slave-architecture-locally-in-kubernetes/
• ECS Deployment Using Terraform
https://www.geeksforgeeks.org/ecs-deployment-using-terraform/
• Working with Prometheus and Grafana Using Helm
https://www.geeksforgeeks.org/working-with-prometheus-and-grafana-using-helm/

SKILLS
Linux, PL/SQL, Java, Docker, SQL Server, PostgreSQL, Network Security, GitHub, Cloud Services, Firebase, Network Configuration, Python, Helm, Amazon RDS, SQS, Amazon EC2, Amazon, Cloudformation, LoadBalancer, ECS, EKS, Redshift, S3, DynamoDB, Git, Bash, Amazon Web Services, NGINX, APIs, CI/CD, GitHub Actions, Jenkins, Kubernetes, Go