Ramasamy R

Software Engineer, 3+ years experience
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A dynamic professional with a strong background in cloud computing and DevOps. With comprehensive expertise in AWS, Terraform, Docker, Kubernetes, and CI/CD tools, adept at optimizing cloud-based architectures and driving operational efficiency through automation. Passionate about continuous learning and innovation, committed to leveraging technology to solve complex challenges in the modern IT landscape.

INDUSTRIES: Cloud Services

TECHNICAL SKILLS

• AWS	3 years
• Bash script	3 years
• Terraform	3 years
• Git	3 years
• C	3 years
• Python	3 years
• Jenkins	3 years
• Linux	3 years
• Kubernetes	3 years
• Docker	3 years
• Jira	3 years
• GitOps	1 years
• Ansible	1 years

SOFT SKILLS

Communication, Problem-solving, Teamwork, Time management, Critical thinking

PROJECT DETAILS

• AWS EKS Fargate Deployment for 2048 Game

Project Description: This project involved the deployment of a fully functional 2048 game on AWS EKS Fargate, utilizing cloud-native technologies to ensure scalability, reliability, and cost-efficiency. The goal was to demonstrate proficiency in Kubernetes administration and AWS services for seamless traffic routing and smooth application operation.

Responsibilities: I aimed to deploy the 2048 game on AWS EKS Fargate to showcase cloud-native capabilities and streamline deployment processes. My responsibility was to ensure the successful implementation of the game on AWS EKS Fargate. I leveraged my expertise in AWS services, particularly AWS EKS and Fargate, to design and orchestrate the deployment architecture. Using Helm charts, I configured the necessary resources and dependencies for the game application. Through meticulous planning and execution, the 2048 game was deployed on AWS EKS Fargate, demonstrating seamless traffic routing and operation. The project showcased my proficiency in Kubernetes administration and AWS cloud services, contributing to the successful demonstration of cloud-native deployment practices.

Technologies: AWS EKS, Fargate, Helm

Industry: Cloud Services

• Automated Deployment Pipeline Implementation for Cloud Infrastructure

Project Description: The project aimed to automate the deployment pipeline for cloud infrastructure using a combination of Jenkins, Docker, Kubernetes, Terraform, and AWS services. The goal was to enhance deployment efficiency, reduce manual intervention, and ensure consistent and reliable deployment processes across multiple environments.

Responsibilities: Capgemini sought to optimize deployment processes for cloud infrastructure on AWS to streamline development workflows and improve operational efficiency. As an Associate II, my role was to implement an automated deployment pipeline using Jenkins, Docker, Kubernetes, Terraform, and AWS services. I began by configuring Jenkins pipelines to automate the build, test, and deployment stages. Docker containers were used to encapsulate application components, ensuring consistency across environments. Kubernetes was employed for container orchestration, facilitating seamless deployment and scaling. Terraform was utilized to provision and manage cloud infrastructure on AWS, including VPC, EC2 instances, S3 buckets, and IAM roles. The automated deployment pipeline significantly reduced deployment time and manual intervention, ensuring faster and more reliable deployments. Jenkins pipelines orchestrated the entire deployment process, from code commit to production release, while Docker and Kubernetes enabled containerized deployment for increased portability and scalability. Terraform scripts provided infrastructure as code, enabling consistent and reproducible cloud infrastructure provisioning on AWS.

Technologies: Jenkins, Docker, Kubernetes, Terraform, AWS

Industry: Cloud Services

EMPLOYMENT HISTORY

• Associate II — January-2022 - July-2022

Description: Implemented automated deployment pipelines using Jenkins, Docker, and Kubernetes, reducing manual intervention by 40% and ensuring 99.9% uptime for production environments. Orchestrated provisioning of cloud infrastructure on AWS using Terraform, resulting in a 30% reduction in infrastructure deployment time. Automated continuous deployment workflows using AWS CodeBuild and AWS CodePipeline, reducing deployment time by 30% for applications hosted on AWS EKS. Collaborated with cross-functional teams to optimize resource utilization, leading to a 20% reduction in AWS cloud services costs.

• Software Engineer — July-2020 - December-2021

Capgemini

Description: Managed public and private cloud infrastructures using AWS, which includes VPC, EC2, S3, Cloud Front, EFS, RDS, Route53, Cloud Watch, and IAM. Automated deployment pipelines using Jenkins, resulting in a 50% decrease in deployment time and a 90% reduction in deployment failures. Provisioned cloud infrastructure using Terraform and implemented Argocd for automated Kubernetes deployment improving deployment consistency and reducing deployment time. Proficient in Git, with experience in branching, version control, and pull requests. Experienced in code merges and conflict resolution, ensuring efficient collaboration in cross-functional teams.

• Software Engineer Intern — September-2019 - June-2020

Capgemini

Description: Gained hands-on experience in AWS cloud computing technologies, including AWS services like EC2, S3, and IAM. Utilized AWS CloudWatch for comprehensive monitoring and analysis of application performance metrics, leading to a 20% improvement in system reliability. Assisted in the development and testing of scripts for automation of infrastructure tasks using Python and Shell scripting.

CERTIFICATION

• GitHub Actions by GitHub — 2024

• AWS Certified Solutions Architect – Associate by Amazon Web Services Training and Certification — 2024

EDUCATION

• Masters degree in Electrical and Computer Engineering from University of Ottawa — 2022 - 2024

• Bachelors degree in Electrical and Electronics engineering from Kumaraguru college of Technology — 2016 - 2020

LANGUAGES

• English - advanced

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