Praneeth Mikkilineni

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Education

Masters in computer and information sciences, **George Mason University, Virginia** (GPA:3.67/4.00)　　　May 2024

Bachelors in computer science and engineering, **Vellore Institute of Technology, India** (GPA:8.52/10.00)　　　May 2022

Experience

Junior Cloud Consultant, Nextel Meta Private Limited, Hyderabad, India | Sep 2021 – Aug 2022

- Assisted in migrating e-learning applications to AWS, ensuring a seamless transition with minimal downtime and a 30% improvement in performance.
- Performed the migration of AWS resources to Terraform for streamlined provisioning and infrastructure management.
- Collaborated with senior consultants to design AWS cloud architectures, enhancing the scalability and reliability of e-learning services, resulting in a 35% increase in user capacity.
- Provided support for AWS cloud infrastructure, identifying and resolving issues promptly, which led to a 25% reduction in downtime incidents.
- Executed Blue-Green Deployments on AWS, minimizing downtime and risks during application updates, which improved deployment success rates by 50%.
- Developed AWS Lambda functions using Boto3 to automate cost-saving tasks, deleting unused EBS snapshots if they weren't associated with volumes or attached to instances, leading to a 15% reduction in AWS costs.
- Created detailed documentation for AWS cloud configurations and procedures, and provided regular reports.

Cyber Security Engineer Intern-Remote, Virtually Testing Foundation, California, USA | May 2022 – Jul 2022

- Acquired extensive knowledge of cybersecurity frameworks (NIST, ISO 27001), OSINT, and cloud/web application security.
- Reviewed 15+ project documents, ensuring security compliance and identifying vulnerabilities.
- Collaborate with 50+ customers to implement new controls and resolve existing issues.

Penetration Testing Intern-Remote, Virtually Testing Foundation, California, USA | Oct 2021- Dec 2021

- Conducted vulnerability exploitations, identifying and reporting over 25 critical vulnerabilities across multiple web applications.
- Learnt about OWASP top 10 and worked on web-application penetration testing as well as professional management.
- Performed daily manual security testing, ensuring compliance and reducing potential risks by 30%.

Skills

- **Programming Languages & Scripting:** Python, Java, JavaScript, HTML, CSS, Bash/Shell
- **Operating Systems:** Windows, Linux (kali, ubuntu), Mac OS
- **DevOps:** AWS, Microsoft Azure, Google Cloud, Terraform, CI/CD, Docker, Kubernetes, Jenkins, Argo CD, Ansible, GitHub Actions
- **Tools:** Git, GitHub, Docker Hub, Jira, Confluence, Microsoft Office Suite, Ansible Galaxy, WordPress, SonarQube

Projects

End-to-End CI/CD Pipeline for Spring Boot Application | Github

- Designed and implemented a CI/CD pipeline for a Spring Boot application using Jenkins, Maven, SonarQube, Docker, and Argo CD, reducing deployment time by 50% and enhancing code quality by 30% through automated builds, static code analysis, and containerization.
- Minimized manual intervention by 40% by automating deployment processes with Argo CD and Jenkins, streamlining software delivery, and ensuring consistent, reliable deployments in a Kubernetes cluster.

Automated Multi-Node Deployment of Web App Using Ansible and Terraform | Github

- Designed and implemented an automated deployment pipeline using Ansible and Terraform, ensuring repeatable and scalable web app deployments across multiple AWS EC2 instances.
- Developed an Ansible playbook and roles to configure and deploy the web application, resulting in seamless deployment across all managed nodes and a highly available web app accessible via the public IP addresses of the EC2 instances.

Game Deployment on AWS EKS with Kubernetes Ingress | Blog

- Deployed a real-time 2048 game application on AWS EKS, ensuring high availability and scalability by utilizing Kubernetes Ingress and the AWS Application Load Balancer (ALB) Ingress Controller.
- Implemented IAM roles and policies to securely enable communication between the ALB Ingress Controller and AWS services, showcasing advanced AWS and Kubernetes orchestration skills.

Certifications

- AWS "**Certified Solutions Architect**" Associate – Amazon Web Services (AWS).
- AWS "**Certified Cloud Practitioner**" Fundamental – Amazon Web Services (AWS).
- NASSCOM Certification for "**Security Analyst (SSC/Q0901)**" conforming to National Skill Qualifications Framework Level 7.