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

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%.

Web Development Intern-Remote, **The Sparks Foundation** | Nov 2020 – Dec 2020

- Designed a web application named "Basic Banking System" using HTML, CSS, and JavaScript. The application enables users to access the information of 100+ users available in the database and display the transactions for each user.
- Hosted the web application on the cloud, boosting productivity and efficiency by 30%, and reducing server downtime by 50%.

Skills

- **Programming Languages & Scripting:** 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, Docker Hub, WordPress, SonarQube

Projects

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

- Designed and implemented a full CI/CD pipeline for a Spring Boot application using Jenkins, integrating Maven for automated builds, SonarQube for static code analysis, Docker for containerization, and Argo CD for continuous deployment to Kubernetes.
- Reduced deployment time by approximately 50% by configuring Jenkins to automate the entire software delivery process, including code checkout, build, and test phases, and using Argo CD to streamline deployments in the Kubernetes cluster.
- Enhanced code quality and security by integrating SonarQube, which led to a 30% reduction in code defects and vulnerabilities, ensuring high standards throughout the development lifecycle.
- Minimized manual intervention by 40% through automation of deployment file updates and integration of continuous deployment practices, resulting in more consistent and reliable deployments.

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

- Designed and implemented an automated deployment pipeline for a web application across multiple AWS EC2 instances using Ansible for configuration management and Terraform for infrastructure provisioning.
- Provisioned EC2 instances with Terraform, ensuring repeatable and scalable deployments.
- Developed an Ansible playbook and roles to configure and deploy the web application, achieving seamless and consistent deployment across all managed nodes, resulting in 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.
- Configured Kubernetes Ingress resources to manage traffic routing, and integrated ALB Ingress Controller for secure external access, demonstrating expertise in cloud-native application deployment.
- 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**.**