

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.

Personal Resume Website Hosting on AWS using Terraform | <https://praneethcloud.xyz/>

- Deployed a personal resume website on Amazon S3 with static website hosting and public access, and configured domain name registration through an external registrar while managing DNS with AWS Route 53 using terraform.
- Acquired and set up an SSL/TLS certificate using AWS Certificate Manager for secure HTTPS access, resulting in a 100% increase in security using terraform.
- Created an Amazon CloudFront distribution for the S3 bucket with an SSL/TLS certificate, enhancing performance and reducing page load times by 100% using terraform.

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.