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, Jenkins, Argo CD, Ansible
- **Additional Tools:** Git, GitHub, Docker Hub, Jira, Confluence, MS Excel, MS Power Point, MS Word, WordPress

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Projects

Continuous Deployment and Integration Using AWS Pipeline and S3 Storage Solutions

- Configured an S3 bucket for static website hosting with automatic deployment capabilities.
- Implemented an AWS Code Pipeline to continuously deploy code changes from GitHub to S3.
- Automated the deployment process to reduce deployment time from 30 minutes to less than 5 minutes, with updates reflected within 2 minutes of a commit with the help of AWS Code Pipeline.

Dockerized 2048 Game Deployment on AWS Elastic Beanstalk | https://github.com/Mp886/2048Game-Docker-AWS/

- Cloned the 2048 game repository from GitHub, created a Dockerfile, and built a Docker image to containerize the application for consistent deployment.
- Utilized AWS Elastic Beanstalk to create an application environment, upload the Docker image, and manage the deployment, ensuring high availability and scalability.
- Configured AWS environment settings, including platform selection and code upload, resulting in a fully functional, publicly accessible web application hosted on AWS with a provided URL.

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.

Prevention and detection of phishing attacks on social media websites

- Developed a sophisticated phishing tool that simulated attacks by imitating legitimate individuals or entities through email and other communication mediums, achieving a 90% success rate in phishing simulations.
- Applied advanced phishing attack prevention strategies using Wireshark for network traffic analysis and intrusion detection, reducing the detection time of phishing attempts by 40%.

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**.**