Amol Dattatray Waditke

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Professional Summary

Cybersecurity enthusiast and ethical hacker pursuing a B.Sc. in Cyber and Digital Sciences with handson experience in Python-based security tools and network reconnaissance. Skilled in ethical hacking, vulnerability assessment, and cloud security, with a solid foundation in TCP/IP, SQL Injection, and operating systems. Passionate about safeguarding digital environments and continuously learning emerging security technologies.

Project

CLOUD SECURITY :

VPC Setup with Public and Private Subnets and NAT Geteway -

- **Designed and implemented a multi-tiered AWS VPC architecture** with public and private subnets to ensure robust network segmentation and enhanced security.
- **Configured a NAT Gateway** within the public subnet to enable secure outbound internet access for resources in
- **Established fine-grained security group rules** for EC2 instances, isolating SSH access to specific IPs (including custom ports) and restricting internal HTTP communication to within the VPC CIDR.
- **Deployed and validated EC2 instances** in both public and private subnets, verifying secure SSH access and confirming internet connectivity from the private instance via the NAT Gateway

CYBER SECURITY :

1.Simple Port Scanner –

Developed an advanced Python-based TCP port scanner designed for network reconnaissance.

- Hostname resolution and scanning of common or user-defined port ranges..
- Multithreaded architecture for significantly faster scanning of multiple ports concurrently..
- Service identification by mapping open ports to common services (e.g., HTTP, SSH, FTP) and performing basic banner grabbing to retrieve service version information.
- User-configurable number of threads and connection timeouts.
- Option to save scan results to a text file for later analysis.

2.Password Analyzer Tool –

- Developed a Python-based password analyzer tool to assess password strength and identify vulnerabilities, enhancing security practices.
- Implemented algorithms for entropy calculation, common pattern detection, and dictionary attack simulations to provide comprehensive password evaluations.
- Utilized Python's string manipulation and data structure capabilities to efficiently process and analyze password inputs.
- Designed and built a user-friendly interface for seamless input and display of password analysis results, improving usability.

Work Experience :

Cloud Engineer Intern :

CoreXtech IT Services Pvt. Ltd. | 3 Months (May 12,2025 to Aug 12,2025)
- Built and configured VPC with public and private subnets, Internet Gateway, and NAT Gateway.
- Deployed and managed EC2 instances with secure access using custom security groups.
- Set up a bastion host for secure SSH access to private resources.
- Installed and hosted a web server on a private EC2 instance with internal HTTP access.

Education

08/2022 – **Bachelor of Science (Cyber and Digital Science)** (CGPA-7.43)

06/2025 **Savitribai Phule Pune University**

- Bachelor Thesis : "Cyber Security, Ethical Hacking, and Frontend Developer" – explored secure web application design, penetration testing methods, and frontend development practices to strengthen overall system security.

Work Related Skills

Languages

- English: Business Fluent
- Marathi & Hindi: Native speaker

Professional Skills

- Strong communication & strategic planning abilities.
- Analytical thinking and negotiation skills.
- Proactive and team-oriented personality.

IT Skills

- **Programming Language** : Python (Beginner), HTML (Beginner) , CSS (Beginner), Javascript (Beginner)
- **Technical Skill** : Cyber Security, Ethical Hacking, Network Security, Problem Solving, Operating System, Penetration Testing, Vulnerability Assessment.