Hrishikesh Nate

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Career Profile:

Working as a Security Researcher and web Developer with 5.2 years of experience in finding vulnerabilities, building secure web applications, and creating tools to protect against cyber threats. My work has taught me the importance of attention to detail, problem-solving, and staying up-to-date with the latest security concepts and practices.

Career Objective:

Achieving an apical position in the Cyber Security Profession. Looking for an opportunity to work on challenging and interesting modules and projects. Motivated and eager to upgrade my career with a growth-oriented, technically advanced organization as an Information Security Researcher.

Professional Experience:

- Working as a Cyber Security India - Associate at **TIAA** (October 2023-Present) Mumbai.

    Achievements:

    - Developing a security recon framework for API security testing with capabilities of scanning authenticated scans and maintaining an active inventory.

    Job Role & Responsibilities:

    - API Security testing.
    - Web Application Security Testing.
    - SAST (Checkmarx).
    - Automation and scripting for optimization and eliminating repetitive processes.

- Working as a Senior Security Engineer at **Paytm** Financial Technology Company (July 2021-Present) Bangalore.

    Achievements:
    - Developed a tool leveraging AWS Route 53 data, conducting a comparative analysis, and performing proactive scans to provide valuable insights for efficient management of AWS environments.
    - Successfully designed and deployed a production-ready file-share portal, enabling secure file-sharing and centralized logging while meeting stringent security and audit requirements.
    - Created the "Github Crawler," a powerful tool that bypasses GitHub API rate limits, enabling quick and efficient search for code snippets, repositories, and other information on GitHub.
    - Designed and developed an open-source Jira dashboard that integrates ticket data, offering comprehensive analytics and duration metrics to optimize workflows and improve productivity.

- Developed the homegrown product "Spyonic," integrating multiple open-source bug bounty tools to proactively identify and remediate security misconfigurations, reducing the risk of successful attacks.
- Designed and developed a Slack app for S3 security self-assessment, automating domain input and checks for default paths and custom wordlists, ensuring proper security measures for S3 buckets.
- Implemented an automated process that retrieves and matches the latest CVEs using OpenCVE API and Qualys scripts, enabling organizations to proactively identify and address vulnerabilities before exploitation occurs.

Job Role & Responsibilities:

- Conducting security testing of web applications and APIs using SAST and DAST techniques.
- Developing and maintaining automated security testing scripts for web applications and APIs.
- Analyzing security test results and identifying potential vulnerabilities or security weaknesses.
- Providing guidance and recommendations to development teams on security best practices and vulnerability remediation.
- Collaborating with cross-functional teams, including developers, architects, and project managers to ensure security requirements are met throughout the development lifecycle.
- Participating in security incident response activities as needed.
- Staying up-to-date with the latest security trends, vulnerabilities, and threat landscape.
- Providing training and education to other team members on security best practices and emerging security technologies.
- Leading to security-related projects and initiatives, such as security automation and tool development.

- Working as a Senior Security Executive in **Justdial Limited** (July 2018 –July 2021) in Bangalore.

  Job Role & Responsibilities:
  - Web Application Penetration Testing.
  - API Pen Testing.
  - Vulnerability Assessment & Penetration Testing for Internal and External Networks.
  - Monitored the use of data files and regulated access to protect secure information.
  - Monitored computer virus reports determining when to update virus protection   systems (Quarterly VA-PT)
  - Conducted penetration testing and located system vulnerabilities before they could
     be exploited.
  - Monitored the organization's networks for security breaches and investigated violations.
  - Expertise in security policies.
  - Expert in Automation Scripts.

  Achievements:
  - Automated the whole IP Blocking and Releasing process.
  - Implementation of Rules based on Crawling behavior.

- Worked as an intern at **Justdial Limited**.

  Job Role & Responsibilities:
  - SIEM module.
  - Worked on MVC Projects.
  - LAMP Architecture.

Government Association:

- Tested Maharashtra State government's websites for vulnerabilities and reported to the respective authorities with appropriate optimal solutions for the same.
- Developed an OSINT Tool called OsintORK for ease in the digital investigation for authorities and to help fraud online traces of reformation regarding the subject of the case.
- Dark-Web Deep monitoring.
- Collected requirements as per department needs and developed a Social Media Monitoring Web Application for managing complaints regarding offensive posts.
- Included modules to generate automated letters/ reports/notices based on actions taken by the respective authority and dynamically change content as per the sections of the India Penal Court criminal procedure code and IT Act.
- Automating and Optimizing Infrastructural Work.

Technical Proficiency:

· Web Application Penetration Testing. (DAST & SAST).
· API Penetration Testing.
· Vulnerability Assessment & Penetration Testing .
· Android Penetration Testing.
· Networking.
· Automation & Scripting.

Certifications & Training:

· Certified Red Team Professional ([CRTP](#)).
· EC-Council: - CEH V10 (ECC3150269784).
· CCNA Routing & Switching.
· CCNP Security (ASA).
· CNSS(Network Security).
· Microcontroller 8051 Key skills.

Software Languages & Tools:

Security Tools:
      DAST: Burp Suite, Postman
      SAST: Checkmarx
      VA: Nessus, Faraday, Qualys
WAF: Akamai CDN.
Cloud: AWS EC2, S3, Route 53 (Basics), CLI
Front-end Languages:
      HTML5, CSS3, JavaScript, Ajax.
Back-end Language:
      Bash, Python, PHP, Groovy.
Database:
      MySQL, PostgreSQL
Framework:
      Flask, Django.

Educational Summary:

Examination	Specialization	University/ Board	Year
B.E	Bachelor of Electronics & Telecommunication Engineering	Mumbai University	2018
HSC	Science	Maharashtra Board	2014
SSC	General	Maharashtra Board	2012

Technical Project Accomplishments:

· Cloud Computing and Firewall on Raspberry Pi.
· Quadcopter configuration and assembling using Arduino.
· Testing Payloads and Malware on Windows 10 and antivirus.
· Testing WPA, WEP, and WPA2 wifi.
· Practice in Capture the Flag challenges from Vuln Hub, Hack The Box, and Over The Wire. · Darknet Crawler.

Social:

- [Linkedin](#)
- [Twitter](#)
- [Github](#)
- [Medium](#)

Personal Details:

Name: Hrishikesh
DOB: 19-08-1996
Nationality: Indian
Languages: English, Marathi, Hindi.