SAMSON IDOWU

Cyber Security Engineer

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| https://samsonidowu.netlify.app | https://www.linkedin.com/in/samson-idowu | https://github.com/SamsonIdowu |

PROFESSIONAL SUMMARY

Highly motivated and technically proficient IT professional with over 4 years of professional experience in designing, building and securing infrastructure solutions; as well as enabling automated software development and deployment processes. Adept at problem-solving and adapting to new technologies and processes, I have a strong drive to continuously improve security posture and drive measurable business objectives, as well as a proven ability to effectively tackle complex technical challenges.

SKILLS

SCRIPTING & IaC: Ansible, Terraform, Bash, Python

CLOUD INFRASTRUCTURE: Azure, AWS

IAM: Microsoft Active Directory, Open-LDAP

NETWORKING: Routing & Switching (BGP/OSPF), NAT, Firewall, IPSec, VPN, DHCP, DNS, NPS, NAC, IPS/IDS

CI/CD: Jenkins, GitLab CI

SIEM & MONITORING: Elastic Stack, Wazuh, Splunk, Prometheus & Grafana

PENETRATION TEST: Kali Linux, Nmap, Metasploit, TCP dump, Burp Suite, Wireshark, Hydra, Sqlmap

SAST/DAST: Snyk, DeepSource, StackHawk, OWASP ZAP

VIRTUALIZATION: Hyper-V, VMware ESXi, Docker, KVM, Kubernetes

WORK EXPERIENCE

Security Researcher

Innopolis University | Innopolis   August 2022 – Present

- Perform security-focused code reviews.
- Enable continuous integration and deployment using Jenkins and GitLab CI.
- Infrastructure automation using Terraform and configuration management using Ansible.
- Support regular and critical security releases, including suggesting security improvements to operations.
- Configuration of WAF, IPS/IDS, SIEM and network devices.
- Conducting penetration test operations on applications deployed by start-ups within Innopolis SEZ.
- Ensuring integration of security tests (SAST/DAST) in CI/CD operations.
- Perform threat-modelling activities using STRIDE, and preparing DFD's using Microsoft Threat Modelling Tool.
- Research, documentation and report writing.

IT Infrastructure and Security Engineer

Hardcore Biometric Systems | Abuja, NG   November 2021 – July 2022

- Administered operating environments (windows & linux) on VMWare ESXi and public cloud platforms.
- Performed vulnerability assessment and patch activities periodically to improve organization's security posture.
- Installed and configured network and security devices including; Firewalls, IDS/IPS, Routers, Switches, WAP.
- Responded to security events and incidents from Intrusion Detection Systems (IDS) and SIEM, within SLA.
- Participated in DevOps activities; automating deployments (Jenkins) and artifact management (Archiva).
- Suggested and implemented infrastructure enhancements to improve security in compliance to NIST and ISO2700 frameworks.

Technical Support Engineer

Zeta-Web Nigeria Limited | Abuja, NG   December 2019 – October, 2021

- Ensured systems patch compliance was at 100% across 400+ end user systems within organization's network to mitigate risks associated with identified vulnerabilities.
- Provided technical support to customers within SLA.
- Performed proactive monitoring of network and incident response activities (using PRTG Network Monitor, WhatsUp Gold and Riverbed Steel Head), thereby reducing service downtimes by over 95%.
- Used Microsoft Active directory to ensure adequate user identity and access management.
- Ensured baseline configurations are maintained and approved upgrades are implemented on firewalls, load balancers, proxy and servers.

IT Technician / Service Desk

Multi-Choice | Port Harcourt, NG   August 2019 – December, 2019

- Worked as part of a 3-man team to provide application, network and hardware support to 140+ end users, reducing employee idle time by over 75%.
- Provided network support to end users, liaising with 3rd party vendors to ensure timely resolution of WAN and VSAT links.
- Performed commissioning of new IT equipment and decommissioning of old equipment.
- Maintained IT asset inventory to help the business better manage systems, software, and licenses.

PROJECTS

- **Deployment of Talconn Application**
  I led a small team of DevOps engineers to test and deploy a containerized version of Talconn application to AWS environment using Terraform and GitlabCI as primary deployment tools.
- **Threat Modelling for SNE-Tube Application**

I performed threat modelling for a YouTube-like application in order to identify potential security vulnerabilities in the development plan and provide a mitigation strategy. I made use of Microsoft Threat Modelling Tool 2016 to create data-flow diagrams (DFD) and provide a concise security report.

- **Implementing DevSecOps Tool-Chain Based on Open-Source Technology**

  I led a team in a research project involving the implementing a robust DevSecOps project with report contained in this link.

- **Design and Deployment of SNE22 Infrastructure**

  I led a team of security researchers in the design of a large Linux-based infrastructure for research purposes. Our infrastructure is mainly powered by open source tools including; Jenkins, Gitlab CI, Kubernetes, Wazuh, Unbound/NSD, etc.

- **Design of Nigerian Police Active Directory Infrastructure**

  I designed the Nigerian Police NPCIDC active directory infrastructure with multiple domain controllers in 5 regions powered by the AD sites and services feature to integrate with its criminal enrollment app over LDAP.

- **For older projects, see;** https://samsonidowu.netlify.app/

ARTICLES

Implementing DevSecOps Tool-Chain Using Open Source Technology
Open Source SIEM Solution Using Wazuh and TheHive
Setting Up CI/CD Infrastructure with GitLab CI

CERTIFICATES

Oracle Project Management cloud 2020 Sales Specialist	January, 2021
CompTIA Security+ CE	May, 2021
Microsoft Azure Fundamentals	July, 2021
Microsoft Security, Compliance and Identity Fundamentals	July, 2021
Fortinet NSE 1, 2 & 3 Network Security Associate	April, 2022

EDUCATION

M.Sc. Security and Network Engineering   2022-2024
Innopolis University, Russia.

B.Eng. Computer Engineering (Second Class Honors)   2012-2017
University of Uyo, Nigeria.

INTERESTS

Network | Cybersecurity | Politics | Application Security | Cryptography | DevOps | Music | Travelling | Video Games