**HARSHIV PATEL**

CYBERSECURITY ENGINEER & IT ADMINISTRATOR

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**SUMMARY**

Versatile and security-focused Full-Stack Developer and Cybersecurity Specialist with **8+ years of experience** in **cybersecurity risk assessments, IEC 62443 compliance**, and **developing secure, scalable web applications**. Expertise in **industrial cybersecurity**, penetration testing, and **securing connected electromechanical products**. Strong knowledge of **networking (OSI model, TCP/IP)**, container security, APIs, and **microservices security**. Proficient in **conducting security assessments**, implementing **DevSecOps**, and ensuring compliance with **OWASP, GDPR, PCI DSS, HIPAA, and IEC 62443 standards**. Hands-on experience with **cloud security (AWS, Azure)**, **threat modeling**, and **vulnerability assessments**. Adept at collaborating with cross-functional teams to **enhance security posture** and **reduce risk exposure**.

**WORK experience**

**Cybersecurity Engineer & IT Administrator – AV Hospitality LLC, NJ, USA August 2022 - Present**

* Administered IT infrastructure, managing 5+ servers and networks with 99.9% uptime.
* **Conducted cybersecurity risk assessments** for IT infrastructure, identifying and mitigating potential vulnerabilities.
* Ensured **compliance with IEC 62443** for securing industrial control systems (ICS) and connected electromechanical devices.
* Developed and implemented **cybersecurity policies**, reducing security incidents by **20%** through **firewall configuration, IAM policies, and security monitoring**.
* Designed and deployed **automated security solutions** using **PowerShell and Python scripts**, improving system efficiency by **30%**.
* Developed **secure RESTful APIs** and **implemented encryption mechanisms** to protect sensitive data.
* **Conducted penetration testing** and vulnerability assessments on company infrastructure to identify security weaknesses.
* Optimized **SIEM and threat detection** using Splunk, Wireshark, and other forensic tools to enhance **incident response**.
* Provided technical support and security configurations, resolving 95% of IT issues within 24 hours.

**Secure Full Stack Developer – Developer Squad (developersquad.in), India (Remote) January 2017 – August 2022**

* Led the **development of secure applications** by integrating security best practices into the **SDLC**.
* Spearheaded **DevSecOps initiatives**, integrating **SAST/DAST scanners**, and secure coding best practices.
* Implemented **secure coding practices** in **.NET, React.js, and Node.js**, reducing vulnerabilities by **30%**.
* Conducted **threat modeling** and **penetration testing** to enhance application security.
* Developed **IAM policies and role-based access control (RBAC)** to protect sensitive data.
* Enhanced system security using **SIEM tools (Splunk, Azure Sentinel)** for log analysis and anomaly detection.
* Conducted **secure code reviews** for **web and mobile applications**, ensuring compliance with **OWASP Top 10**.
* Enhanced resource utilization by 20% through the implementation of robust database architectures and improved system performance by resolving critical code errors and optimizing storage solutions.

**core competencies**

Cybersecurity Risk Assessments | Industrial Cybersecurity (IEC 62443, NIST, ISO 27001) | Secure Software Engineering | Threat Modeling & Security Architecture | Penetration Testing & Vulnerability Assessment | Secure SDLC | RESTful APIs & Microservices | DevSecOps & CI/CD Security | Cloud Security (AWS, Azure) | Agile Development (Scrum, Kanban) |SQL & NoSQL Databases |Unix Shell Scripting | Power Shell Scripting | IAM & Role-Based Access Control (RBAC) | SIEM & Security Monitoring (Splunk, Wireshark) | Application Vulnerability Assessment | Secure Code Reviews for Web and Mobile Applications | Application Security (SAST, DAST, OWASP, Secure Code Reviews) | Network Security (Firewalls, TCP/IP, OSI Model, Intrusion Detection Systems)

**technical SKILLS**

**Programming & Automation:** .NET,React.js, JavaScript, Node.js, TypeScript,C, C++, Java, Python

**Cloud & DevOps:** Azure Functions, Azure Queues, AWS, Firebase

**API & Integration:** REST APIs, GraphQL, OAuth, Azure Graph API, Snyk

**Databases:** MongoDB, MySQL, PostgreSQL, NoSQL

**Security & Compliance:** OWASP, SAST, DAST, Secure SDLC, IAM, Wireshark, Splunk, HIPAA, GDPR, PCI DSS

**CI/CD & Workflow Automation:** Azure DevOps, GitHub Actions, Jenkins, Docker, Kubernetes

**Dashboards & Reporting:** Power BI, Grafana, React.js, Vue.js, UML Diagram, System Modeling

**education**

**Pace University, Seidenberg School of Computer Science and Information Systems New York, United States**

Master in Cybersecurity August 2022 **–** May 2024

**Gujarat Technological University** **Gujarat, India**

Bachelor of Computer Engineering June 2016 – August 2020

**key cybersecurity projects**

**Industrial Control System (ICS) Security Enhancement, AV Hospitality LLC, NJ, USA 2024**

* Conducted cybersecurity risk assessments for ICS, identifying vulnerabilities in connected electromechanical devices.
* Implemented IEC 62443-compliant security controls, reducing potential cyber threats by 40%.
* Developed intrusion detection mechanisms and firewall rules to safeguard industrial networks.

**Threat Detection & SIEM Implementation,** **AV Hospitality LLC, NJ, USA 2023**

* Deployed Splunk and Azure Sentinel for real-time log analysis and anomaly detection.
* Created custom security alerts to identify potential cyber threats and unauthorized access attempts.

**Secure API Gateway Development, Developer Squad, India 2022**

* Designed and implemented a secure API gateway for a financial services client, ensuring end-to-end encryption and authentication (OAuth, JWT).
* Integrated SAST/DAST security scans to detect and mitigate vulnerabilities in APIs.

**Additional training & Certifications**

**GOOGLE CYBERSECURITY PROFESSIONAL CERTIFICATE**

**Application Security:** OWASP, SAST/DAST Tools, Penetration Testing, SIEM & SOAR Tools, SAST and SAC tools

**Programming Languages:** .NET, JavaScript, Java, ReactJS, AngularJS, VueJS, Python, PHP