BIPUL PAUDEL

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Status

US Citizen, able to obtain any clearance if needed.

Education

George Mason University, School of Engineering and Computing
Fairfax, VA
Master of Science: Information Security and Assurance, Major GPA: 4.00 | (Expected to graduate December 2024)
- **Concentration in Network and System Security (NSS)**
- Relevant Courses: Cyber Laboratory. Malware Reverse Engineering, Computer Communication and Networking

Virginia Commonwealth University, School of Business
Richmond, VA
Bachelor of Science: Information Systems | Graduated in 2020
- Major GPA: 3.90 | Cumulative GPA: 3.40, with 4 times Dean's List

Technical Skills

Cybersecurity Proficiency:
- Configuring and utilizing both offensive and defensive cybersecurity tools, including Snort, YARA Rules, Clam AV, and Metasploit.
- Expert in advanced log monitoring and data analysis, utilizing industry-leading tools such as Splunk and Sysmon to effectively identify, investigate, and mitigate security threats, ensuring optimal system performance and security compliance.
- Skilled in malware reverse engineering, adept at reviewing disassembled code and analyzing behavioral patterns of malicious binaries in controlled environments to extract actionable insights, emphasizing changes in files, systems, networks, and processes.
- Proven track record in network and system security, leveraging advanced techniques for robust defense and ethical hacking.

Technical and Development Skills:
- Proficient in using Service Now Ticketing System, Cloud Workshop Portal, Microsoft Azure Incident Management System, and Microsoft Azure Just in Time Access Portal.
- Skilled in Kubernetes, GitLab, AWS Developer Tools, JIRA, and Agile Development methodologies.
- Experienced in web development using frameworks like ReactJs, ExpressJS, and Angular, integrating multiple enterprise SAAS via WebMethods.

Software and Tools:
- In-depth knowledge of MS Office Suite, SharePoint, Linux, and Visual Studio Team Foundation.
- Adept at Purchase Requisition, Account Reconciliation, and FTP management.

Communication and Analytical Abilities:
- Excellent verbal and written communication skills.
- Strong analytical abilities, capable of working independently and collaboratively in high-pressure environments.

Leadership and Management:
- Demonstrated ability to lead projects and interface effectively with all levels of management and personnel.
- Balances technical proficiency with leadership, initiative, and a solutions-oriented approach in demanding situations.

Professional Experience

TATA Consultancy Services
Software Engineer, WFH   **Jan 2021 - April 2022**
- Developed a delivery dynamic web application using AngularJS with a small group on an Agile basis.
- Developed a fully scaled full-stack application utilizing NodeJS and ExpressJS as the frameworks.
- Implemented MongoDB for the database and constructed a fully functional backend admin panel to update front-end data in real-time, integrating with various APIs.
- Tested each component with Mocha and Jest Frameworks

Nutrien
System Engineer, WFH   **April 2021 - August 2022**
- Successfully executed diverse development roles in projects interfacing with finance-based databases like SAP, S4, PSFT, and Oracle, leveraging Microsoft Power BI for dynamic ad hoc reporting and in-depth data analysis.
- Demonstrated strong leadership in actively managing Chrome River (employee expense management solution) projects, driving significant enhancements through effective integration of Webmethods as middleware, and meticulously developing API documentation to ensure seamless and efficient processes.
- Provided pivotal integration support for projects involving Chrome River, Blackline, and Webmethods, adeptly handling escalations in ongoing development projects and coordinating effectively with vendors for necessary modifications.
- Effectively conducted Threat Risk Analysis on various enterprise applications, assuming the critical role of Technical Owner for Chrome River within Nutrien, ensuring robust security and compliance.
- Led and orchestrated numerous cutover activities, documenting development project artifacts, and collaborating closely with vendors and the internal integration team to resolve development and debugging issues efficiently.

Relevant Projects

Senior Capstone Project - Virginia Department of Transportation   **Fall 2020**
- Developed a geo-database that includes parcel ownership information for future implementation of fiber optics.
- Utilized an agile approach with Kanban organization for each element of the solution delivery process.

IT Auditing   **Spring 2020**
- Conducted thorough auditing of various business controls, (i.e. general, preventive, application, corrective, access, security management), policies, software, databases, firewalls, etc.
- Developed various project artifacts following the Audit Life Cycle process from planning to reporting.

Open AI Dall-E-2 API Implementation   **Spring 2023**
- Developed a fully dynamic website using the MERN stack.
- Implemented cloud-based storage for the community page, storing the images on Cloudinary, and equipped MongoDB as the database solution.
- Utilized Tailwind CSS and optimized the components for response-friendly user interaction to simplify searching, saving, and sharing images generated from Dall-E-2 AI.

Community Activities:

- AITP – Association of Information Technology Professionals: Member   January 2018 - Present
- Alpha Phi Omega: Member   January 2018 - June 2020
- Richmond Folk Festival: Volunteer   August 2018 - September 2018

Additional Projects:

- **Hack the Box Penetration Testing Lab**: Rasta Labs- Red Team Simulation
- **System Hardening**- Utilized Tripwire to secure Windows Server 2016 via group policy editor.
- **Security Topics**- Created a key and certificate policy on par with industry standards.

Languages

- English (fluent)
- Nepali (fluent)
- Hindi (intermediate)

Certifications

Edureka AngularJS and NodeJS Developer
CompTIA Security+ SYO 601: In Progress