

Sanil Dulal

Kathmandu, Nepal • 9866409028 • sanildulal187@gmail.com

EXPERIENCE

Security Analyst & DevSecOps Engineer

Kathmandu

Jeevee

Sep, 2024 - Present

Oversee and execute all security operations, including vulnerability assessments, risk management, and security incident response. Lead the integration of DevSecOps practices to streamline security and DevOps measures within the development lifecycle. Implement CI/CD pipelines, automate infrastructure, and enhance system reliability while maintaining a strong security posture. Develop and enforce security policies, conduct risk analysis, ensure compliance standards, and manage continuous monitoring. Collaborate cross-functionally to promote security and DevOps best practices, fostering a proactive approach to emerging threats and efficient deployment processes.

IT intern

Kathmandu

Deba Jyoti Group

Jun, 2024 - Sep, 2024

Completed a 3-month internship focused on hands-on IT support, network management, and technical troubleshooting. Gained practical experience in configuring and maintaining firewalls, monitoring network security, and supporting end-users in resolving hardware and software issues. Played a key role in managing network connectivity and assisting in routine system updates, enhancing the stability and security of IT infrastructure.

EDUCATION

Secondary Education Examination

Kathmandu

Gorakhhkali English Boarding School

Apr, 2008 - Mar, 2018

High School

Kathmandu

Himalayan Whitehouse International College

Aug, 2018 - Dec, 2020

PROJECTS

Web Vulnerability Scanner

Developed a sophisticated web vulnerability scanner to identify critical security issues, including SQL Injection, Cross-Site Scripting (XSS), phishing threats, directory traversal, and outdated software:

- Phishing Detection with Machine Learning: Applied machine learning to detect phishing URLs and enhance security insights.
- SQL Injection & XSS Detection: Analyzed page content to identify injection points and script vulnerabilities.
- Domain Age & Software Version Checks: Flagged newly registered domains and outdated software through domain and header analysis.
- Concurrent Scanning: Optimized performance with multi-threaded execution.

<https://github.com/sanil18/web-vulnerability-scanner>

ZeroForetell: Predictive Defense Against Zero-Day Exploits

ZeroForetell is an innovative cybersecurity platform, proactively addressing zero-day threats through cutting-edge AI and machine learning. Designed for seamless integration into diverse security infrastructures, it provides real-time threat analysis, predictive modeling, and user-guided simulations to enhance response readiness.

Achievements: Successfully developed an advanced threat intelligence hub that aggregates global data, enabling proactive defense with high detection accuracy. Currently in the research phase, focused on refining algorithms for faster threat identification and enhanced anomaly detection capabilities. This ongoing R&D work aims to create a resilient, adaptive platform, ultimately shaping the future of zero-day defense for widespread industry adoption and global cybersecurity improvement.

ACHIEVEMENTS

Delegate, International Model United Nation

Represented France as a delegate at the Everest International Model United Nations, engaging in diplomatic discussions and negotiations with participants from 16 different countries. Demonstrated strong communication, negotiation, and problem-solving skills while addressing global issues. Developed cultural awareness and collaborative abilities in a diverse, multicultural setting.

TRAINING/CERTIFICATIONS

Advent of Cyber 2023 2023

Try Hack Me

Successfully completed the Advent of Cyber 2023 program hosted by TryHackMe. This event comprised daily cybersecurity challenges throughout December, focusing on various aspects such as penetration testing, digital forensics, and security operations. The hands-on tasks provided practical experience and foundational knowledge in cybersecurity, enhancing both problem-solving skills and technical proficiency.

Google Cybersecurity 2024

Google

Completed the Google Cybersecurity Professional Certificate, a program designed by Google experts to prepare individuals for entry-level roles in cybersecurity. The curriculum covered identifying and mitigating common threats, using SIEM tools, managing intrusion detection systems, applying the NIST Cybersecurity Framework, understanding ethical considerations in cybersecurity, and foundational networking concepts. Emphasizing practical skills through hands-on projects, this certificate aligns with industry standards like the CompTIA Security+ exam and is recognized by leading employers

Machine Learning With Python 2023

freeCodeCamp

Completed the Machine Learning with Python certification from Free Code Camp, demonstrating proficiency in implementing machine learning algorithms and techniques using the Python programming language. Developed practical skills in data preprocessing, model building, and evaluation, enhancing understanding of fundamental concepts in machine learning.

SKILLS

Leadership, Problem-solving, Communication, Team collaboration, Time management, Adaptability, Critical Thinking

LANGUAGE

Nepali, Hindi, English