PRASIDDHA PAUDEL

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SOC ANALYST (SECURITY OPERATIONS CENTER ANALYST)

CompTIA Security+ certified engineer with hands-on expertise in vulnerability assessment, penetration testing, and security policy development. Strong background in network hardening, digital forensics, and implementing robust security measures. Proficient in using tools like NMAP, Nessus, Wireshark, and BurpSuite for threat detection and mitigation. Certified in Google Cloud Cybersecurity and CompTIA Security+. Adept at applying Agile methodologies, including working in sprint-based cycles, cross-functional teams, and iterative feedback loops to ensure continuous improvement and adaptability in security solutions.

● Vulnerability Assessment ● Penetration Testing ● Incident Response ● Network Security
● Security Audits ● Digital Forensics ● Security Policy Implementation ● Risk Assessment

Languages: Java, Python, Grails
Web: HTML, JavaScript, React.js, Node.js, jQuery, Ajax
Web Services: SOAP, REST, JSON/XML, Web API
Web/App Servers: Tomcat
Frameworks: Spring MVC, Spring Boot, Groovy
Databases: MySQL, MS SQL
Design Patterns: Singleton, MVC, Factory, Observer, Decorator, Command, Strategy, State, Proxy, Chain of Responsibility
SDLC: Agile, Waterfall
Tools: Jenkins, Selenium, NMAP, Nessus, Wireshark, BurpSuite, SIEM, SOAR, Splunk, FTK Imager, Groovy, IntelliJ, Git, GitHub
Platforms: Windows, Linux, AWS

PROFESSIONAL EXPERIENCE

*CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).*

MAULIK TARANGA PVT. LTD, Kathmandu, Nepal ● 12/2022 – 04/2024
A digital forensic and cyber security company specializes in security engineering and security audits.

Jr. Security Engineer (12/2023 – 04/2024)
Security audit and training on security tools.
- Performed vulnerability assessments and penetration testing for web applications and networks in financial and healthcare projects, using tools like NMAP, Nessus, and BurpSuite to reduce vulnerabilities by 30%.
- Installed and configured security systems for the police and cyber investigation bureau, utilizing NMAP, Nessus, and network hardening techniques, strengthening overall network security across multiple departments.
- Developed security policies for a cloud migration in e-commerce, improving compliance by 25% using NIST CSF, ISO 27001, and AWS Security Hub for enforcement and monitoring.
- Conducted digital forensics for a legal compliance project, using FTK Imager to identify breaches, recover data, and ensure evidence integrity.
- Trained over 50 end-users on security best practices, enhancing security awareness across the organization.

__Technologies Used:__ NMAP, Nessus, Wireshark, Burpsuite, FTK Imager, Digital Forensics Tools, Network Hardening Techniques, HTML5.

Software Engineer (12/2022 – 12/2023)
Developed and maintained application focusing fleet management system.
- Designed and developed a fleet management system using Java, React, and Node, improving operational efficiency by 20% for the client.
- Worked on a real-time data analytics project utilizing MySQL, MSSQL, Web API, and REST technologies, enhancing system performance and scalability while enabling quicker decision-making for business operations.
- Led secure web application development adhering to OWASP Top Ten, using BurpSuite for vulnerability scans and reducing security incidents by 15% with input validation and secure session management.
- Implemented RESTful APIs and MySQL for real-time vehicle tracking, resulting in a 20% increase in operational efficiency.

- Collaborated with cross-functional teams to deliver projects on time using Jira and in-house project management tools, reducing development time by 10%.

Technologies Used: *MySQL, MSSQL, Web API, REST, MVC, JSON, SOAP, Java, ReactJS, NodeJS.*

CEDARGATE TECHNOLOGIES (PREVIOUSLY DEERWALK SERVICES), Lalitpur, Nepal • 03/2021 – 10/2022
A leading value-based care performance management company.

Software QA Automation Engineer
Build and maintain QA Automation software for the internal QA process handling.
- Developed automated test scripts using Selenium, reducing manual testing time by 40%.
- Improved Quality Assurance processes by automating 60% of regression tests with Jenkins and Selenium, resulting in a 20% reduction in defects.
- Collaborated with developers to implement a CI/CD pipeline on AWS, using Jira and in-house tools, reducing production issues by 15% through automated testing and early defect detection.
- Maintained and improved an in-house QA Automation application using MySQL for data management and Tomcat for deployment, increasing test coverage by 30%.

Technologies Used: *Selenium, Jenkins, Groovy, MySQL, MSSQL, Tomcat, IntelliJ, AWS*

AASHA TECH PVT. LTD, Kathmandu, Nepal • 09/2019 – 02/2021
A custom software development and IT services specialized company.

Software Engineer
Developed and maintained custom software applications.
- Developed the Scholarship Management System for Pokhara University using Laravel and MySQL, processing over 1,000 applications annually.
- Implemented security measures using Laravel's built-in features and tools like OWASP ZAP and BurpSuite for the Scholarship Management System, reducing data breaches by 10%.
- Utilized Python and PHP to streamline data processing for scholarship application reviews, improving data handling efficiency by 25%.
- Designed and optimized RESTful APIs for seamless communication between the front-end and back-end, enhancing the user experience across web and mobile platforms.

Technologies Used: *Laravel, Python, PHP, Git, Microsoft Visual Studio, Windows 10, Linux*

ACADEMIC PROJECTS

Maharishi International University (2024)
- **Personal Portfolio:** Developed a personal portfolio website using React, TypeScript, CSS, Express.js, and Node.js, showcasing projects with dynamic routing and API integration for enhanced user engagement and responsiveness.

- **Mini Spring Boot Framework:** Created a backend framework for the Advanced Software Development course using Java reflections and design patterns, implementing core features like dependency injection, configuration management, and annotation processing to enhance modularity and flexibility.

- **Real-Time Stock Market Data Processing:** Worked on a Big Data project using Apache Kafka, Spark Streaming, HBase, Hive, and Power BI to process real-time stock market data. Key contributions included setting up the data pipeline, performing ETL operations, and developing Power BI dashboards for visualizing stock trends. Utilized Java, React, TypeScript, Express.js, and various Big Data tools.

EDUCATION

Master of Science in Computer Science
(In progress via distance education; expected completion 12/2026)
Maharishi International University, Fairfield, Iowa

Key Courses: Advanced Software Development, Big Data, Cloud Computing, Web Application Programming

Bachelor of Science in Information Technology in Enterprise Systems Development
University of Technology Sydney, Sydney, Australia (07/2017)

CERTIFICATIONS
Google Cloud Cybersecurity Certificate (09/2025)
CompTIA Security+ (01/2024)