

Bijay Silwal

QA/Automation/Security Engineer

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Summary:

Dynamic and impact-driven QA Engineer with 5+ years of global experience across manual, automation, API, and security testing in Agile and DevSecOps environments. Expertise in Playwright (TypeScript), API testing, CI/CD integration, and OWASP-driven security testing. Proven track record of reducing regression time, improving release confidence, and identifying high-impact vulnerabilities in distributed systems. Experienced in working independently and within globally distributed engineering teams. Recognized by global tech leaders such as Apple, Google, and BBC for exceptional security research. Adept at working independently and cross-functionally in distributed, multicultural teams to deliver quality at speed in both on-premise and cloud-native (SaaS) ecosystems.

Professional Experience:

QA Automation Engineer

LogPoint — Security & SIEM Platform | Dec 2022 – Present

- Led the migration from legacy Robot Framework to a scalable Playwright + TypeScript automation framework, reducing regression time and enabling modular test coverage, and increasing efficiency by 30%
- Delivered robust automation for critical business workflows (RBAC, log search, repository creation, normalization, etc.) in both on-prem and SaaS deployments.
- Conducted hands-on manual, API, and security testing of SIEM/SOAR features across distributed environments, proactively identifying over 50+ critical vulnerabilities.
- Collaborated closely with backend, frontend, DevOps, and product teams in a distributed Agile environment, contributing to improved release stability and quality culture.
- Initiated and led the QA Idea Portal to drive engineering excellence—proposing and executing 15+ scalable QA enhancements including Docker-based automation, Jenkins deployment jobs, and componentized test tagging.
- Drove full automation of SaaS release pipelines with smoke testing, enabling faster and safer rollouts.
- Independently explored infrastructure bottlenecks and proposed containerization and parallel execution strategies using Docker and Pabot.
- Presented initiatives across teams and mentored peers, hosted multiple demos, knowledge sharing sessions, fostering a culture of experimentation, feedback, and continuous improvement.

Associate Software QA Engineer – CloudFactory (Feb 2022 – Nov 2022)

- Delivered high-quality testing for APIs, infrastructure, and frontend systems with 95%+ defect detection rate.
- Contributed to web security validation, mitigating OWASP vulnerabilities using Burp Suite and OWASP ZAP.
- Led deployment testing and feedback cycles post-release, ensuring rapid iteration and low customer defect rates.

Security Researcher (Jun 2019 – Present | Remote Engagements)

- Reported 30+ critical vulnerabilities across **Google**, **Apple**, **Huawei**, and **BBC**—earning **Hall of Fame** mentions, bounties, and community recognition.
- Specialization in OWASP Top 10 including XSS, CORS, IDOR, and Auth flaws etc; collaborated with security teams on remediation.
- Created detailed vulnerability reports, mitigation recommendations, and proof-of-concept exploits.

Key Achievements:

- **Apple:** Discovered and reported sensitive CORS misconfigurations protecting confidential APIs.
- **Google:** Prevented iframe injection in internal collaboration tools.
- **BBC:** Identified and patched HTML injection paths preventing brand and user trust risks.
- **Huawei:** Uncovered sensitive asset exposure in internal DevOps systems.

Technical Skills:

- **Automation & Tools:** Playwright (TypeScript), LLM integration with Playwright, Robot Framework, Jenkins, GitLab CI/CD, Docker, Postman, Jira, XRAY, etc
- **Security Testing:** Web app pentesting, API pentesting, Burp Suite, OWASP ZAP, Postfix, Authentication Hardening, DNS, SMTP validation
- **Programming:** Python, GoLang, JavaScript/TypeScript
- **Testing Areas:** Manual, Automation, API, UI, Security, Infrastructure
- **Ecosystems:** AWS (SES, Cognito), vSphere, SaaS platforms, Linux-based systems
- **Soft Skills:** Remote Collaboration, Cross-Functional Leadership, Documentation, Initiative, Mentorship

Certifications:

- Practical Network Penetration Tester (**PNPT**) – The Cyber Mentor (Oct 2021)
- AWS Solution Architect Associate (In Progress)

Education:

Bachelor in Science, Computer Science and Information Technology – Patan Multiple Campus, Tribhuvan University (2016–2020, delayed graduation: 2021 due to COVID)

Notable Projects:

- **QA Process Optimization:** Piloted migration to Playwright; presented roadmap to leadership, test case documentation, Enforce Shift left approach, Threat modeling
- **Docker Automation Feasibility Study:** Highlighted pros, cons, and compatibility issues with LogPoint infra.
- **Security Testing (Freelance):** Discovered XSS, SQLi, CORS, IDOR across real-world apps and academic projects.
- **Bug Bounty Platform Feedback:** Provided UX and feature comparisons for Bugcrowd and others.

Personal Interests:

- Cybersecurity CTFs (TryHackMe, HackTheBox)
- Building automation tools and productivity scripts
- Books, philosophy, travel documentaries
- Playing football, hiking, and nature biking