

Bijay Silwal

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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. Demonstrated success in leading high-value QA transformations, pioneering test automation frameworks, and championing security-first QA practices. 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 Engineer – LogPoint (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.
- Built custom Postfix-based SMTP testing tools and authored centralized technical documentation, contributing to organization-wide knowledge transparency by sharing documentation and conducting demos.
- 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