MARK GABRIEL R. VILLANUEVA

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SUMMARY

Software QA Engineer with less than 2 years of experience in manual and automation testing using Robot Framework. Strong in test case design, test data creation, defect identification, communication, and ensuring high-quality software delivery.

EDUCATION

Polytechnic University of the Philippines - Santa Maria, Bulacan   *October 2020 – September 2024*
B.S. Information Technology (GWA: 1.24)

Magna Cum Laude | Service (Leadership) Awardee | Finalist in 3rd PUP Research Pitching Competition | 2023 PUP Hackathon Participant

WORK EXPERIENCE

Junior Quality Assurance Engineer   *October 2024 – Present*
YNS Philippines Inc. (Makati City)

Key Projects:
- **Relief Facility Invoice Management System –** Automated monthly invoice generation (scheduled & actual) for users and jurisdictional offices.
- **Garbage Collection Management System –** Digitized garbage collection workflows, enabling coordination between truck drivers, managers, and administrators.

- Contributed to test planning by designing test cases, **preparing data**, and conducting peer reviews
- Collaborated with developers, stakeholders, and business analysts (including Japanese BAs) to **refine specifications** and assess feature impacts.
- Experienced in **Agile/Scrum**, actively engaging in ceremonies to align testing with development.
- Performed **product demonstrations** at the end of each sprint to gather feedback from business analysts and ensure alignment with requirements.
- Conducted unit, API (Postman) for **back-end testing**, regression, integration, functional, security, and smoke testing.
- Conducted application **security testing**, uncovering vulnerabilities like **DevTools tampering**, and enforced security best practices.
- Defined **test objectives**, strategies, and plans to enhance coverage and efficiency.
- Investigated bugs, validated feature implementations, and **provided actionable insights**.
- Supported developers and QA teams with **requirement clarifications** and issue resolutions.
- Recommended and implemented **process improvements** to increase efficiency during sprint retrospectives.
- Handled **ticket management**, documentation, and issue tracking.
- Delivered a **knowledge-sharing session** on software testing fundamentals.
- Test automation using **Robot Framework**.

Associate Quality Assurance Engineer   *September 2024 – October 2024*
YNS Philippines Inc. (Makati City)

- **Designed, created, and executed unit test cases**, ensuring software quality at an early development stage.
- Proposed and validated **additional input parameters** to enhance test coverage and system validation.
- **Managed and maintained** test documentation, ensuring comprehensive records of test cases, execution reports, and defect tracking.
- Performed **manual and exploratory testing, validating edge cases** to strengthen product quality.
- Gained basic knowledge in performance testing using **JMeter**, ensuring application stability under high loads.

QA & Web Developer Intern   *April 2024 – July 2024*
B&D IT Consultancy (Santa Maria, Bulacan)

- **Developed and tested** an HRIS web application including modules for Employee Management, Timekeeping, Payroll, and User Access Control.
- Contributed to software development using PHP, Laravel, Filament, HTML, CSS, JavaScript, and MySQL.
- Designed and executed manual test cases to validate application features and ensure quality before release.

SCHOOL / CAPSTONE PROJECT

Frontend Developer & UI Designer   *November 2024 – February 2024*
PUPSKED: A Web-Based Class Scheduling Application with Automated Conflict Detection for Polytechnic University of the Philippines - Santa Maria, Bulacan Campus

- Designed and developed a Class Scheduling application that digitizes schedule plotting for school administrators, reducing manual work and enabling quick generation of schedule documents for rooms, teachers, and students.

SKILLS

- Unit Testing
- Regression Testing
- Integration Testing
- Security Testing
- Functional Testing
- Smoke Testing
- API Testing

- SQL
- Robot Framework
- Python
- Java
- Git
- Jira
- Postman

CERTIFICATIONS

- Robot Framework with Python- Selenium/API Automation Testing
- User Experience (UX) Design – Coursera
- Google Data Analytics – Coursera
- Solo Learn – SQL Intermediate, HTML, CSS, JavaScript, Java, Python
- FreeCodeCamp – Responsive Web Design