

# FRANCIS POKU BONSU

## Senior QA Automation Engineer | Security-Focused Quality Specialist

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### PROFESSIONAL SUMMARY

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Results-driven QA Automation Engineer with 9+ years of experience testing and securing enterprise software across banking, fintech, telecom, e-commerce, real estate, and mobile platforms. Skilled in building scalable TypeScript/JavaScript automation frameworks (Playwright, WebdriverIO, Selenium), integrating automated suites into CI/CD pipelines, and embedding security, performance, and API testing across the SDLC. Applies an AI-augmented testing approach by using AI tooling to accelerate requirement analysis, test design, and defect triage while exercising engineering judgment to validate and own every outcome. Proven record of reducing defect rates, preventing vulnerability-driven financial losses, and elevating quality standards in regulated, compliance-heavy environments. Currently advancing expertise through an MSc in Cyber Security & Digital Forensics (KNUST).

### CORE TECHNICAL SKILLS

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**Test Automation:** Playwright, WebdriverIO, Selenium, Appium, Maestro, TestComplete, Cypress

**Languages & Scripting:** TypeScript, JavaScript, Python, SQL (Java – familiar)

**Security Testing:** OWASP Top 10, OWASP ZAP, BurpSuite, Mobsf, Snyk, vulnerability assessment, penetration-style testing, secure-data practices

**Performance & Load:** k6, JMeter, load / stress / scalability testing

**API & Integration:** Postman, REST API testing, database & integration testing

**CI/CD & DevOps:** GitHub Actions, Jenkins, Azure DevOps, Docker, containerized test environments

**Test Management:** Jira, Xray, TestRail, Allure, defect & test-case management

**Databases & Version Control:** PostgreSQL, MySQL, Git, GitHub, Gitlab

**Methodologies:** Agile / Scrum, SDLC, TDD / BDD, regression, UAT, risk-based & exploratory testing

**AI-Augmented QA:** AI-assisted requirement analysis, test-case & script generation, and defect triage; orchestrating LLM-based agents and AI coding assistants within human-led, validated QA workflows

**Domain:** Banking & financial services, regulatory compliance, data privacy, audit-ready QA

### PROFESSIONAL EXPERIENCE

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**Republic Bank (Ghana) Limited** | Accra, Ghana

Nov 2025 – Present

*Automated Quality Assurance Officer – Technology Division*

- Design and maintain end-to-end automated test suites in TypeScript using Playwright and WebdriverIO, validating functionality, data integrity, user workflows, and system integrations across web, Android, and iOS banking applications.
- Engineer reusable, scalable automation frameworks and quality gates integrated into Gitlab Actions CI/CD pipelines, enabling faster, more reliable releases while upholding audit and regulatory-compliance standards.
- Execute OWASP Top 10 security and vulnerability assessments on core banking and payment platforms, strengthening protection of sensitive customer and transaction data.
- Conduct performance and load testing with k6 and Jmeter to validate system behaviour under high transaction volumes and peak-load conditions, ensuring scalability and reliability.
- Perform API, database (PostgreSQL), and integration testing to verify data accuracy, integrity, and consistency across enterprise systems, with strict adherence to data-privacy and secure-testing practices.
- Partner with QA Tech Leads, software engineers, and business analysts to translate business requirements into targeted automated test scenarios; log, track, and drive defect resolution through Jira.
- Apply an AI-orchestrated testing approach by leveraging AI tooling to analyse requirement documents, generate and scaffold test cases, and accelerate script development, while applying engineering judgment to review, refine, and own every test outcome.

*Quality Assurance Engineer*

- Led QA across Monterosa’s web and mobile platforms, enhancing testing protocols to achieve a 30% reduction in defect rates and a 25% increase in testing efficiency.
- Designed and executed systematic test plans aligned to project specifications and client requirements, improving release-cycle efficiency by 30% and minimizing production downtime.
- Automated and optimized regression and functional testing across Android & iOS SDKs, APIs, and web apps, accelerating bug detection and resolution by 15%.
- Partnered with product managers, developers, and designers to align requirements with QA objectives, cutting miscommunication-related project delays by 20%.

**Hubtel Limited**

Dec 2022 – Aug 2024

*Team Lead, Quality Assurance*

- Led end-to-end test strategy; performance, load, scalability, integration, and test-data management; across Hubtel’s software, APIs, web, and mobile products.
- Drove a security-assessment initiative that identified critical vulnerabilities, preventing an estimated GHS 50,000 in potential financial losses.
- Conducted vulnerability and penetration-style testing on payment platforms (money transfers, bulk SMS, direct top-ups), preventing potential cyber-attacks and safeguarding transactions.
- Estimated, prioritized, and coordinated testing activities across release cycles to consistently meet project timelines and quality objectives.
- Mentored and trained the QA team, fostering a culture of continuous improvement, curiosity, and technical growth; reviewed and drove resolution of defects while ensuring compliance with company standards.

**AdeCore Limited**

Feb 2022 – Nov 2022

*Software Test Engineer*

- Tested APIs, desktop, web, and mobile applications, plus POS and AFC devices, applying risk-based validation strategies (System, Process, and Software Validation) to support regulatory compliance.
- Evaluated design documents, mock-ups, and wireframes for new features, contributing feedback that improved functionality and user experience.
- Applied QA expertise across diverse architectures; Web, Mainframe, Client-Server, Mobile, and SaaS to deliver robust end-to-end testing strategies.
- Led QA for both scheduled and emergency software releases, ensuring production stability and version reliability.

**Transsion Holdings**

Sep 2016 – Jan 2022

*Quality Assurance Engineer / Test Lead*

- Analyzed and tested multiple builds across APIs, desktop, web, and mobile applications to identify, trace, and resolve defects.
- Defined and met product quality objectives and specifications, optimizing test cases to maximize manual testing coverage and success.
- Verified developer fixes, compiled detailed findings with recommended resolutions, and mentored team members on QA strategies and tool suites.

**EDUCATION**

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**MSc, Cyber Security & Digital Forensics**

In Progress

*Kwame Nkrumah University of Science and Technology (KNUST)***BSc, Network Computing***Open University Malaysia (OUM)***CERTIFICATIONS**

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- Google Cybersecurity Professional Certificate
- Cybersecurity Essentials Program — Educ8Africa

**SOFT SKILLS**

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Communication • Problem Solving • Critical Thinking • Attention to Detail • Teamwork • Adaptability • Mentorship & Leadership