

Tinubu Damilola Frank

Full Stack Developer | Cloud & DevOps | Quality Engineering | AI Engineering | Security

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SUMMARY

Software engineer who builds, tests, deploys and secures applications. I develop full stack applications in Python, Java and TypeScript, automate their build, test and deployment with CI/CD pipelines, test them with Selenium, JMeter and security tools, and add AI features such as retrieval-based question answering. Experience includes Full Stack Developer at DIXKOX Inc., Systems and Quality Engineering Lead at Dopkamid Nigeria Ltd, a Fanshawe College software testing certificate, and an M.Sc. in Software Engineering from Quantic (October 2026).

SKILLS

Full stack development: Python, Java, FastAPI, Flask, Next.js and React, TypeScript, scikit-learn, object-oriented design. Designing, building and delivering applications end to end.

Cloud and DevOps: Jenkins, GitHub Actions, Docker, AWS and Azure. CI/CD pipelines, deployment automation and cloud infrastructure.

AI engineering: Prompt engineering, generative AI, RAG systems, AI agents, LLM integrations. AI and machine learning features built into real products.

Software testing and quality: Selenium WebDriver, TestNG, Cucumber, Appium, JMeter. Test strategy, quality assurance and quality control.

Security: XSS and CSRF, path traversal, threat modelling, web security labs. Cybersecurity practices built into the way software is delivered.

Practices: Agile and Scrum, Jira, requirements analysis, root-cause analysis, cross-team collaboration

EXPERIENCE

DIXKOX Inc., Canada

Mar 2025 – Present

Full Stack Developer (registered Canadian technology business)

- Design and build applications end to end: front end, back end services and APIs, and data handling.
- Set up automated testing and CI/CD pipelines (GitHub Actions, Jenkins) so changes are built, tested and deployed automatically.
- Work on AI features: prompt engineering, generative AI, RAG systems, AI agents and LLM integrations.

Dopkamid Nigeria Ltd, Ogun State, Nigeria

2020 – Present

Systems and Quality Engineering Lead

- Led functional, integration, system and UAT testing for internal systems, third-party integrations and infrastructure changes.
- Set quality standards, test strategies and release-readiness criteria that every release had to meet before production deployment.
- Ran root-cause analysis on production incidents with developers and vendors to prevent recurrence.
- **Root-cause fix:** QuickBooks and BusyWin failed about three times a week. After the usual fix stopped working, I tested the machines by hand, traced the fault to a fluctuating power supply unit, and replaced it; the failures stopped.
- Supported more than 10 users with Windows, Office 365, printer, network and remote (AnyDesk) troubleshooting.

Fanshawe College, London, ON

May 2025 – Dec 2025

Software Test Engineer, Industry Projects (Agile / CI/CD)

- Designed automated test suites for web, API, desktop and mobile applications with Java, Selenium, TestNG and JUnit, using page-object and data-driven patterns, and ran them in Jenkins pipelines.
- Tested APIs with REST Assured and Postman, ran load tests with Apache JMeter, and ran security tests with Burp Suite.
- Validated LLM output for correctness, consistency, bias and hallucinations.

SELECTED PROJECTS

- **PolicyLens-Mini (Quantic capstone): full stack and AI.** FastAPI backend and Next.js, React and TypeScript frontend that answers questions from an uploaded policy PDF using my own retrieval code (TF-IDF-style weighting, cosine similarity, relevance threshold). Deployed on Vercel and Render with GitHub Actions. Accuracy on a 20-question evaluation set rose from 15 to 20 correct, and the 35-test regression suite passes.
- **BinaryShield AI: malware detection web app.** Flask app that extracts file-header features from uploaded Windows executables with pefile, classifies them with a scikit-learn model and scans them with YARA rules. pytest tests run in GitHub Actions, which then deploys to Render.
- **CI/CD pipelines.** Wrote GitHub Actions pipelines that build, test and deploy a React app to GitHub Pages, test and deploy the malware app to Render, add automated unit tests to a course app, and build Docker images in a course project.
- **Non-functional testing, Dolibarr (team project).** JMeter load and stress tests at 50, 75 and 100 virtual users, plus Lighthouse audits and Apache and MySQL outage runs. Throughput reached 12–15 requests/s against a 9 requests/s target, and at 100 users every job-application step failed.
- **Capstone, Money Manager EX (five-person team).** Tested web, desktop and Android apps with Selenium and a 100-user JMeter run. Pass rates were 80% to 100% across modules, and I found that transactions sync from web to desktop but not desktop to web.
- **Selenium framework, OrangeHRM.** Java, Maven and TestNG framework of 13 tests with explicit waits and a traceability matrix; the final run passed all 13.
- **Web security labs.** Completed PortSwigger cross-site scripting, CSRF and path traversal labs with Burp Suite and built a threat model in OWASP Threat Dragon.
- Full write-ups, results and code links are on my portfolio at dixkox.tech and on GitHub at github.com/dixkox.

EDUCATION

M.Sc. Software Engineering

October 2026

Quantic School of Business and Technology, Washington, DC. 62 credentials earned, including Software Testing and CI/CD, Cloud Applications and Architectures, AI Engineering, and two specializations.

Ontario College Graduate Certificate, Software and Information Systems Testing

2025

Fanshawe College, London, ON. Also earned the Fanshawe Rising Leaders: Student Leadership badge.

B.Sc. Industrial Chemistry

2010

Adekunle Ajasin University, Nigeria.

CERTIFICATIONS AND TRAINING

- **Cloud Computing**, Hagital Consulting, Lagos, Nigeria (2025): cloud concepts, Microsoft Azure, AWS services and AWS DevOps.
- **Essentials of IT Service Management and ITIL Level 4**, Alison (2025)
- **Agile Scrum Master Class**, International Association of Project Managers (2022)