

EBENEZER OSEI-BONSU

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PROFESSIONAL SUMMARY

Technology enthusiast and results-driven AI-Native Software Engineer, Senior Quality Assurance Engineer and Systems Implementation/Integration Specialist with a background in codebase diagnostics, software programming, and software testing. Good at integrating autonomous multi-agent AI structures into traditional development environments to ingest complex legacy architectures, reverse-engineer system dependencies, and intercept regression bugs. Proven capability to maintain code integrity, ship new enterprise-grade features, and scale applications across highly regulated sectors including healthcare, finance, natural resource governance and public-sector environments. I am also capable of working as an AI engineer and a Cybersecurity specialist.

CERTIFICATIONS

- CC Certified in Cybersecurity (ISC2)
- Foundations of Project Management (Google)
- Technical Support Fundamentals (Google)

CORE COMPETENCIES & TECHNICAL SKILLS

- **AI & Agentic Software Engineering:** Multi-Agent Workflow Orchestration, Codebase Ingestion & Reverse Engineering, Context Engineering, Dependency Mapping, System Diagnostics, Claude Code, Cursor, Codex, ChatGPT
- **Full-Stack Development & Languages:** Next.js (App Router), React, TypeScript, Python, JavaScript, HTML5, CSS3, Tailwind CSS
- **Databases & Architecture:** Supabase (PostgreSQL, Real-Time Listening, Auth), API Architecture, SQL Server
- **Manual & Automated Testing:** CI/CD Pipeline Automation, Playwright, Vitest, React Testing Library, Maestro, axe-core (Accessibility/WCAG Compliance), API testing (Postman), UAT
- **Agile & Project Operations:** Code Maintenance, Git/GitHub, Jira, Asana, Trello, Requirements gathering, Cross-functional collaboration

FEATURED AI SOFTWARE ENGINEERING PROJECT

Full-Stack Dialysis Facility Website

Recent Project

- **Multi-Agent SDLC Orchestration:** Architected an autonomous multi-agent development pipeline (PM, UI/UX, Dev, Code Reviewer, QA, Code Improvement Agents) leveraging Claude Code to automate complex software lifecycles and radically compress feature time-to-market.
- **Full-Stack Implementation:** Engineered and deployed a production-ready medical platform enabling secure patient intake registration and an appointment scheduler connected to a serverless Python backend and Supabase database.
- **Comprehensive Test Engineering:** Implemented a bulletproof testing grid using Playwright for end-to-end user journeys, combined with Vitest and React Testing Library to isolate internal component lifecycles from breaking regression issues.

- **Accessibility & Standards Compliance:** Enforced strict WCAG compliance by embedding automated axe-core accessibility auditing directly into the pipeline, guaranteeing accessible layouts required for medical user frameworks.

PROFESSIONAL EXPERIENCE

Senior Quality Assurance Engineer — Fido Micro Credit Limited

May 2025 – March 2026

- Collaborated intimately inside traditional full-stack core engineering divisions, using agentic assistance to systematically audit existing architectures, isolate complex runtime bugs, and patch cross-functional application constraints.
- Designed, developed, and deployed robust automated testing matrices utilizing Playwright and Maestro frameworks, drastically increasing test efficiency and safeguarding system performance.
- Integrated automated script validations directly into corporate CI/CD pipelines to unlock rapid continuous delivery models and accelerate production code releases.
- Authored comprehensive QA manuals, test configurations, and leveraged Jira to track system issues, and maximize application stability.
- Supported UAT and production validation activities and contributed to test planning, estimation, documentation, and process improvement.

Senior QA Engineer | Systems Implementation Engineer — Devnest Systems Limited

January 2022 – May 2025

- Drove end-to-end software integration layouts, large-scale data migrations, and multi-tenant environment provisions using Postman and Microsoft SQL Server across corporate, municipal, and private sectors.
- Formulated and maintained deep end-to-end regression validation suites using Playwright to continually audit existing codebases and pinpoint deployment regressions before production delivery.
- Managed production deployments to live edge hosting networks and cloud systems, using optimized continuous deployment setups.
- Contributed directly to the end-to-end quality validation and launch of legacy flagships including the ecosystem of the Ghana Wood Tracking System (GWTS, FLEGT Portal, Industry Portal and Transparency Portal), Kordzi EMR paperless hospital core infrastructure, Sika Fund (Welfare & Credit Union Control), PERS, and GhNRM
- Collaborated with developers, system architects, and business stakeholders and supported end users through training, documentation, and remote troubleshooting.

Zenith Direct Agent — Zenith Bank Ghana

September 2020 – July 2021

- Handled customer queries, cards-on-referral activities, telemarketing/surveys, instant account opening, and chargeback/representment updates.
- Participated in piloting a bank policy for cards on referral and instant account opening via USSD.

IT Personnel — Viruk Limited

January 2020 – September 2020

- Managed the company website and supported product marketing, stock records, and operational record keeping.

Sales and Customer Service Executive — Tech Town

January 2017 – July 2019

- Oversaw sales, marketing and record keeping of company products.
- Responding to customer queries.

Assistant to an Event Organizer — Afri-Jumba Consult

July 2013 – June 2014

- Analyzed requirements of target audience, replying to clients queries and planning.

SELECTED SYSTEMS & PORTFOLIO

- **Healthcare & Finance Infrastructures:** Kordzi EMR (Paperless Hospital Management Platform); MedPaddy (Medical Intake & Reminders App); Fido App (Mobile Financial Services Infrastructure); Sika Fund (Welfare & Credit Union Control Architecture); HAP (ERP).
- **Governance & Forestry Infrastructure:** Ghana Wood Tracking System (GWTS Chain-of-Custody Tracking); FLEGT Portal (EU Licensing verification); Industry and Transparency Portal (Compliance and transparency gateway); Revenue Reconciliation Audit Platform (Utilized by the General Auditing Commission of Liberia); PERS (Product Evaluation and Registration); GhNRM (Ghana Natural Resource Monitoring).

EDUCATION

Bachelor of Science in Information Technology (Software Programming) Graduated 2019

Accra Institute of Technology

- **Core Coursework:** Data Structures and Algorithms, Systems Development, Object-Oriented Programming (Java/C++), Information Systems, Group Dynamics & Communications.