

Jackson Githinji Njihia

Senior Full Stack Developer | QA-Focused Engineer

CONTACT

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PROFILE

Senior Full Stack and QA Engineer driving scalable, high-performance web systems with production-grade quality through automated testing and CI/CD practices. Expert in JavaScript and Python ecosystems, performance optimization, and engineering for observability and reliability. Skilled in designing, building, and delivering end-to-end systems independently or in collaboration with cross-functional teams. Passionate about creating maintainable, reliable, and performant software that meets real-world business needs.

SKILLS

Testing & QA: Mocha, Jest, Cypress, Playwright, Selenium, Testing Library, Storybook Testing, Manual & Exploratory QA, Automation Testing, CI/CD Integration, Observability (Prometheus), Reliability Engineering.

Backend: Node.js, Express.js, NestJS, Python, Django, Flask, REST APIs, Event-Driven Architecture, Prisma, SQLAlchemy, GraphQL.

Frontend: React.js, Next.js, TypeScript, Tailwind CSS, Bootstrap, Responsive UI, Accessibility, Performance Optimization.

Databases: PostgreSQL, MySQL, MongoDB, SQLite, Data Modeling, Schema Design, Indexing, Performance Optimization

DevOps: Docker, CI/CD, GitHub Actions, Vercel, Railway.

Cloud & Storage: Supabase, Firebase, Cloudinary.

Collaboration & Delivery: Cross-Functional Team Leadership, Sprint Planning, Code Review Leadership, Delivery Strategy, Technical Decision Communication, Ownership

WORK EXPERIENCE

Independent & Freelance Digital Professional | 2016 - Present

- Designed and deployed scalable full-stack applications serving business and academic clients.
- Architected RESTful APIs and optimized database schemas, reducing query time by up to 40%.
- Implemented authentication systems, file storage workflows, and secure deployment pipelines.
- Integrated automated testing strategies to improve code reliability and reduce production bugs.
- Led end-to-end project lifecycles from requirement analysis to deployment and maintenance.
- Managed hosting environments using Docker and cloud platforms (Vercel, Railway).

ACE Ads Agency | (Feb 2025 - Jul 2025)

Full Stack Web Developer

- Built and maintained high-performance WordPress and custom web applications.
- Optimized database queries and backend workflows, improving page load speed by 30%+.
- Implemented SEO and analytics integrations to support digital marketing strategies.
- Strengthened site security through configuration hardening and vulnerability mitigation.

Aerie Digital Services | 2024

Digital Technology Specialist

- Resolved 150+ client technical issues with computer repair, diagnostics, and system maintenance.
- Increased client website traffic by 40% through SEO, paid ads, and content optimization.
- Designed digital assets and branding materials, improving client engagement.
- Mentored clients in digital literacy, enhancing workflow efficiency.

EDUCATION

Moringa School | 2023 - 2024

Software Engineering

Technical University of Mombasa | 2011 - 2016

BSc. Electrical & Electronic Engineering

REFERENCES

Available upon request.