

KEVIN N. OMYONGA

Senior Software Engineer & Tech Team Lead

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PROFESSIONAL SUMMARY

Senior Software Engineer and Tech Team Lead with over 10 years of experience designing, architecting, scaling, and managing cross-platform mobile, backend, geospatial, and IoT solutions. Proven track record in managing cross-functional technical teams of up to 11 engineers and data scientists, founding technology platforms, and delivering high-impact applications reaching over 100,000 downloads. Specialized in full-stack system architecture, modern API design, spatial data engineering, and cloud infrastructure to turn complex technical challenges into production-ready software. Adept at establishing QA/QC frameworks, aligning technical strategy with organizational goals, and driving end-to-end product delivery.

EDUCATION

- **United States International University - Africa (USIU-Africa)**

Master of Science in Information Systems and Technology | January 2024 – September 2026

- **Thesis Supervisor:** Dr. Gerald W. Chege, PhD.
- **Thesis Title:** MotyBase: A Standardized Mobile and Web Platform for Optimizing Driver Compensation and Rider Trust

- **Strathmore University**

Bachelor of Business Information Technology, Database Administration | November 2012 – March 2015

Diploma in Business Information Technology | May 2011 – August 2012

CERTIFICATIONS

- **Cisco Certified DevNet Associate** – Cisco Networking Academy (Jan 2026)
- **AWS Cloud Technical Essentials** – Coursera/Amazon Web Services (Nov 2022)
- **Certified Ethical Hacker (CEH)** – iLab Africa, Strathmore University (May 2016)

TECHNICAL SKILLS

- **Languages & Frameworks:** Dart (Flutter), Python (Django, Flask, FastAPI), JavaScript/TypeScript (React, NextJS, Node.js), Kotlin, Java (Spring, Vert.X), C++, C#, PHP (Laravel), Swift, Go, Angular, Bash/Shell Scripting
- **Geospatial & Backend:** QGIS, PostGIS, GeoDjango, GraphQL, REST APIs, PostgreSQL, SQL/NoSQL, Firebase/Firestore
- **Platforms & Tools:** Docker, Kubernetes, AWS(EC2, S3, IAM, VPC), GCP, Pulumi, Terraform, Google Maps Platform, Jupyter Notebooks, Android SDK, iOS, Arduino, ESP32/ESP8266
- **CI/CD & Testing:** GitHub Actions, CircleCI, SonarQube, pre-commit, CI/CD Pipelines, PyTest, Unit/Integration Testing, Postman
- **Game Development:** Game Design, C++, Flame Engine (Flutter), Unity, C#

WORK EXPERIENCE

GeoIQ Partners | Nairobi, Kenya

GeoIQ provides enterprise geospatial intelligence, location analytics, and custom spatial data engines across Africa.

Senior Software Engineer & Team Lead | October 2025 – Present

- Lead and direct a cross-functional engineering team of 11 (5 Software Engineers, 2 Data Scientists, 2 Geospatial Analysts, and 2 Geospatial Engineers) across core software and GIS initiatives.
- Oversee team workflows, technical strategy, and implementation of GIS-integrated platforms.

KNOEyes Technologies Ltd. | Nairobi, Kenya

KNOEyes Technologies Limited is a software engineering consultancy providing bespoke mobile, web, and backend development services for enterprise clients and venture funding.

Founder & Lead Developer | March 2021 – Present

- Founded and manage a technology development firm delivering custom mobile, web, and backend software solutions.
- Architect cross-platform mobile and web applications using Flutter, React, and Django backends.

GetBoda Technologies Ltd. | Nairobi, Kenya

GetBoda is an on-demand last-mile logistics and ride-matching delivery platform.

Chief Technology Officer / Senior Software Developer | April 2022 – May 2022

- Led an engineering team of 5 software developers to design and deploy a driver mobile application featuring automated schedule tracking, real-time route optimization, and a streamlined check-in system to improve driver productivity and operational efficiency.
- Managed core engineering architecture, technical strategy, and stack selection for logistics and ride-matching delivery infrastructure.

mTek Services / Hillcroft Technologies Ltd. | Nairobi, Kenya

mTek Services (now Bolttech Kenya as of Nov 2025) is a leading African insurtech providing paperless, direct-to-consumer insurance solutions.

Quality Assurance Quality Control Coordinator | January 2021 – February 2021

- Established QA/QC automation suites and pre-release testing protocols, improving deployment stability and reducing post-launch bug reports across core insurance products.

Senior Software Developer | August 2019 – February 2021

- Architected and deployed the mTek paperless insurance platform across Android, Web (React/Angular), and Java(VertX) backend services, driving 100,000+ downloads on Google Play.
- Designed real-time quote generation and policy issuance integrations with major insurance underwriters, cutting policy processing time from days to under 3 minutes.
- Engineered PataPesa, an in-app growth and referral system that incentivized users and new sign-ups with account bonuses for purchasing insurance, measurably increasing user retention, engagement, and organic acquisition.
- Directed a cross-functional team of 7 software developers (4 juniors, 3 mid-level) using Agile/Scrum methodologies, improving sprint delivery predictability and code coverage.

Kenswitch Ltd. | Nairobi, Kenya

Kenswitch is a licensed national payment service provider and interbank switching platform connecting financial institutions, ATMs, POS networks, and mobile payment infrastructure across Kenya.

Systems Analyst and Developer | June 2018 – August 2019

- Spearheaded the complete redesign and overhaul of the Senti mobile application, transitioning it from a native Android codebase to a cross-platform Flutter architecture. Delivered a fully functional, end-to-end working prototype (including updated UI/UX design) within a 1-month timeline.
- Analyzed system requirements, integrated payment switching infrastructures, and maintained enterprise backend platforms.

iLabAfrica (Strathmore University) | Nairobi, Kenya

iLabAfrica is a premier university research and innovation center focusing on ICT for Development (ICT4D), cybersecurity, mobile solutions, and tech entrepreneurship.

Android Trainer | October 2016 – June 2018

- Conducted intensive mobile application development training programs in native Android/Java, guiding students through the complete product lifecycle from initial idea conception to testing, refinement and successful deployment on the Google Play Store.
- Mentored trainees who successfully transitioned into full-time software engineering roles at top tech companies, including Andela, and recruited a former student as a Junior Android Developer into my engineering team at mTek.

Assistant Junior Developer | October 2016 – June 2018

- Built and maintained client-facing mobile and web solutions for university research initiatives.
- Architected and developed **Wild**, a mobile tracking application deployed across Kenyan national parks and game reserves to monitor wildlife activity, detect real-time poaching threats, and assist law enforcement in apprehending poachers.

Rounin Solutions | Nairobi, Kenya

A student-founded technology startup delivering custom web and mobile applications for local SMBs and university initiatives.

Co-Founder & Developer | February 2014 – October 2016

- Co-founded software consulting outfit building bespoke mobile and web tools for local clients.

KEY PROJECTS & INNOVATIONS

- **MotyBase:** Cross-platform vehicle sharing and rental platform featuring real-time location tracking, user identity verification, and an integrated financial escrow payment engine to guarantee secure, conditional transaction releases between drivers and riders. Built using Flutter, React, Python/Django, and PostGIS.
- **Indie Game Development (Kinga, Dhoruba & Vitayaja):** Designed, built, and published multi-platform games using Flutter, the Flame game engine and custom physics, featured on *Games Industry Africa* and *KTN Business Coach*.
- **mTek Insurance Platform (BoltTech Kenya):** End-to-end insurance engine enabling real-time coverage purchase via mobile/web. Reached **100,000+ downloads**.
- **Robotics & Embedded Systems (Balandroid & Drone):** Engineered self-balancing robot utilizing Arduino, Raspberry Pi, and custom dual-shock control modules (presented at 17th Strathmore ICT Conference). Built custom ESP32/ESP8266 quadcopter with custom C++ flight controllers.
- **Pregnancy Tracker:** Native Android health guidance app supporting expectant mothers with localized resources. Scaled to **50,000+ downloads**.
- **WhistleFlare & Claptivator:** Audio-pattern recognition tools utilizing real-time acoustic signal processing to locate lost mobile devices. Scaled to **50,000+ downloads**. Recognized by *Intel AppThwack Challenge* (Top App in Kenya, 2014) and *The Nairobiian* (Friday, 24th January 2014).
- **Strathmore University Graduation App:** Digital alternative to paper booklets; achieved **1,000+ downloads** across iOS and Android. Featured in local university press.

CONFERENCES & SPEAKING ENGAGEMENTS

- **Speaker, Droidcon Kenya / Fluttercon Kenya | Nairobi, Kenya (2025)**
 - **Building 2D Fighting Games in Flutter – The Vitayaja Case Study:**
Delivered a technical deep dive on game engine mechanics, state

management, and continuous frame rendering strategies for 2D fighting games built with Flutter and the Flame engine.

- **Speaker, Droidcon Kenya** | Nairobi, Kenya (2023)
 - **Playing God In A World Of Your Making With Flutter And Flame:** Presented on game loop architectures, physics integration, and component-driven game design using the Flame engine in Flutter.

REFEREES

- **Dr. Leah Mutanu, PhD.**
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