

KEVIN N. OMYONGA

Senior Software Engineer & Tech Team Lead

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PROFESSIONAL SUMMARY

Software engineer and technical team lead with 10 years of experience building mobile, backend, geospatial, and IoT systems. Managed engineering teams of up to 11 developers and data scientists, built applications that reached over 100,000 downloads, and founded a tech consultancy. Experienced in API design, spatial data processing, cloud infrastructure, and release engineering.

EDUCATION

United States International University - Africa (USIU-Africa)

Master of Science in Information Systems and Technology

Nairobi, Kenya
January 2024 - September 2026

Strathmore University

Bachelor of Business Information Technology (Database Administration)

Diploma in Business Information Technology

Nairobi, Kenya
November 2012 - March 2015
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)** - iLabAfrica, 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

GeoIQ builds geospatial intelligence tools, location analytics, and spatial data engines across Africa.

Senior Software Engineer & Team Lead

Nairobi, Kenya

October 2025 - Present

- Lead an 11-person technical team (5 software engineers, 2 data scientists, 2 geospatial analysts, and 2 geospatial engineers) across GIS and core platform projects.
- Set engineering strategy, manage project timelines, and build backend services integrated with spatial data.

KNOEyes Technologies Ltd.

A software consultancy providing custom mobile, web, and backend development for regional clients.

Founder & Lead Developer

Nairobi, Kenya

March 2021 - Present

- Founded and operate a software firm delivering web, mobile, and backend applications.
- Built mobile and web platforms for client projects using Flutter, React, and Django backends.

GetBoda Technologies Ltd.

An on-demand last-mile logistics and delivery platform.

Chief Technology Officer / Senior Software Developer

Nairobi, Kenya

April 2022 - May 2022

- Led 5 developers in building a driver mobile app with schedule tracking, route calculation, and check-in workflows.
- Selected the tech stack and designed the system architecture for order matching and dispatch systems.

mTek Services / Hillcroft Technologies Ltd.

Nairobi, Kenya

An insurtech platform providing direct-to-consumer insurance in Kenya (acquired by Bolttech).

Quality Assurance Quality Control Coordinator

January 2021 - February 2021

- Set up automated testing suites and QA protocols, reducing production bugs across web and mobile releases.

Senior Software Developer

August 2019 - February 2021

- Built and launched the mTek paperless insurance platform on Android, Web (React/Angular), and Java (Vert.X) microservices, growing the app to over 100,000 downloads on Google Play.
- Integrated quote generation and policy issuance APIs directly with insurance underwriters, cutting processing times from days to under 3 minutes.
- Built PataPesa, an in-app referral program that awarded credit for insurance purchases, increasing user acquisition and repeat app usage.
- Managed 7 developers (4 junior, 3 mid-level) using two-week Scrum sprints to improve release reliability and test coverage.

Kenswitch Ltd.

Nairobi, Kenya

National interbank switching platform connecting banks, ATMs, POS networks, and mobile payments in Kenya.

Systems Analyst and Developer

June 2018 - August 2019

- Rebuilt the Senti mobile application, migrating it from native Android to Flutter and delivering a working prototype in one month.
- Maintained interbank switching backends and integrated financial services APIs.

iLabAfrica (Strathmore University)

Nairobi, Kenya

A university research and innovation center focused on software development, cybersecurity, and ICT project delivery.

Android Trainer

October 2016 - June 2018

- Taught native Android development in Java, guiding students from initial app concepts to Play Store publication.
- Mentored developers who joined tech companies like Andela, later hiring a graduate as a junior developer at mTek.

Assistant Junior Developer

October 2016 - June 2018

- Built web and mobile software for university research projects.
- Developed Wild, a wildlife tracking mobile app used in national parks to monitor animal movement and send real-time poaching alerts to rangers.

Rounin Solutions

Nairobi, Kenya

A software startup founded with Strathmore University classmates.

Co-Founder & Developer

February 2014 - October 2016

- Co-founded a software studio building custom web and mobile tools for local businesses.

KEY PROJECTS & INNOVATIONS

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- **MotyBase:** Vehicle sharing platform featuring real-time location tracking, identity verification, and escrow payments. Built with Flutter, React, Django, and PostGIS.
 - **Indie Game Development (Kinga, Dhoruba & Vitayaja):** Designed and published multi-platform 2D games using Flutter and Flame engine. Featured in Games Industry Africa and KTN Business Coach.
 - **mTek Insurance Platform:** Insurance distribution engine with over 100,000 downloads on Android.
 - **Robotics & Embedded Systems:** Built a self-balancing robot with Arduino and Raspberry Pi (presented at 17th Strathmore ICT Conference) and an ESP32 quadcopter with custom C++ flight controllers.
 - **Pregnancy Tracker:** Native Android health app providing localized resource guides; reached 50,000+ downloads.
 - **WhistleFlare & Claptivator:** Audio signal processing apps that locate lost phones using sound detection. Reached 50,000+ downloads; won Intel AppThwack Challenge Kenya (2014).
 - **Strathmore University Graduation App:** Digital alternative to paper graduation booklets; reached 1,000+ downloads across iOS and Android.

CONFERENCES & SPEAKING ENGAGEMENTS

- **Speaker, Droidcon Kenya / Fluttercon Kenya** Nairobi, Kenya (2025)
Building 2D Fighting Games in Flutter - The Vitayaja Case Study: Technical talk on game loop architecture, state management, and frame rendering using Flutter and Flame.
- **Speaker, Droidcon Kenya** Nairobi, Kenya (2023)
Playing God In A World Of Your Making With Flutter And Flame: Presentation on game loop mechanics, physics engines, and component systems in Flutter.

REFEREES

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