

CALVINCE OTIENO TOM

Full-Stack Software Developer | Django REST Framework & Next.js Specialist

 Nairobi, Kenya |  calvinceotienotom@gmail.com |  +254 757 230 421

 linkedin.com/in/calvince-tom |  github.com/calvinctom

|  <https://github.com/tomcalvince>

PROFESSIONAL SUMMARY

Results-driven **Full-Stack Software Developer** with hands-on experience designing, building, and deploying scalable applications using **Django REST Framework** and **Next.js**. Skilled in **API architecture, frontend performance optimization, and containerized deployments using Docker**.

Currently part of the engineering team at **Iguru Limited**, where I build **data analytics dashboards, multi-tenant APIs, and enterprise reporting systems** serving thousands of daily records. I combine backend reliability with modern frontend engineering practices to deliver clean, maintainable, and efficient solutions.

TECHNICAL SKILLS

Core Stack: Django REST Framework, Django, Next.js, React.js, Python, JavaScript, TypeScript

Frontend Development: React Hooks, SSR, State Management, Responsive Design, UI

Optimization

Backend Development: RESTful APIs, Database Modeling, Authentication/Authorization, Caching, ORM

DevOps & Infrastructure: Docker, Docker Compose, Nginx, Linux Server Administration, CI/CD Pipelines

Databases: PostgreSQL, SQLite

Tools & Practices: Git, GitHub, Postman, API Documentation, Agile Workflows, Testing & Validation

PROFESSIONAL EXPERIENCE

Full-Stack Software Developer

Iguru Limited | Nairobi, Kenya | February 2025 – Present

- Architected full-stack analytics dashboards using **Next.js** and **Django REST Framework**, enabling real-time business reporting for multiple client organizations.
 - Designed and deployed multi-tenant backend APIs with advanced filtering, aggregation, and pagination to handle 10,000+ records daily.
 - Implemented role-based access control (RBAC) across user types, ensuring secure and compliant data access per client organization.
 - Managed full Docker-based infrastructure, deploying multi-container setups (frontend, backend, and database) with zero-downtime rollouts.
 - Configured production servers on Linux using Nginx reverse proxy and Let's Encrypt SSL, achieving 99.9% uptime and secure HTTP/2 communication.
 - Developed custom data aggregation endpoints for reporting dashboards, optimizing query performance and API response times.
 - Introduced TypeScript patterns across the frontend codebase, improving type safety and reducing production bugs by over 40%.
 - Collaborated with the product and UI teams to translate complex business requirements into functional, scalable technical solutions.
 - Optimized frontend performance with lazy loading and code splitting, reducing bundle size and improving page load speed by 35%.
 - Wrote reusable React components with proper state management, ensuring UI consistency and maintainability across modules.
 - Contributed to CI/CD pipeline setup, automating builds, testing, and deployments for faster release cycles.
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Software Developer Intern

KONZA TECHNOPOLIS | Makueni, Kenya | September 2023 – November 2024

- Delivered a complete server provisioning and quotation management system using Django, automating request handling and reducing turnaround time by 60%.
- Designed a user role assignment workflow that improved departmental collaboration and accountability.

- Created **custom Django admin interfaces** with search and filtering for system administrators.
 - Built robust **form validation and error-handling mechanisms**, ensuring clean data and better UX.
 - Participated in **code reviews** and API documentation, improving team collaboration and maintainability.
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PERSONAL PROJECTS

Parcel Delivery Platform (Ongoing)

Tech Stack: Django REST Framework, Next.js, TypeScript, PostgreSQL, Docker, Nginx

- Building a **logistics management system** for agent-based parcel delivery and real-time package tracking.
- Implementing **JWT authentication** and **role-based access control** for agents, customers, and administrators.
- Designed a **responsive frontend** using Next.js and Tailwind CSS with a mobile-first approach.
- Deployed on **Linux VPS** with **Docker Compose** and **Nginx reverse proxy**, including automated SSL certificate renewal.

 [GitHub Repository](#)

Africa's Talking SMS Integration

Tech Stack: Django REST Framework, Africa's Talking API,

- Developed a notification service for **sending automated SMS updates** to customers, admin authentication using **OpenID Connect with Auth0** integration.

 [GitHub Repository](#)

EDUCATION

Bachelor of Science in Information and Communication Technology (ICT)
Jaramogi Oginga Odinga University of Science and Technology (JOOST) | 2017 – 2022

Kenya Certificate of Secondary Education (KCSE)
Kanyawanga Secondary School | 2013 – 2016

KEY STRENGTHS

- Strong balance between backend engineering and frontend architecture.
 - Proven ability to design and scale systems handling large data volumes.
 - Skilled in Dockerized deployments, Nginx configuration, and Linux environments.
 - Consistent in meeting project deadlines with production-ready, testable code.
 - Continuous learner with growing expertise in TypeScript, SSR, and data visualization.
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REFEREES

Mr. John Mbugua

Fulstack Developer, Iguru Limited
 +254 728781720 |  johnmbugua@igurukenya.com

Mr. Nicholas Karimi

Backend Developer, Konza
 +254 710 568 014 |  nkarimi@konza.go.ke

Mr. Samuel Mukuria

ICT Officer, Kenya Revenue Authority (KRA)
 +254 701 981 672 |  smukuria@kra.go.ke