

## HARRISON NDIRANGU ITOTIA

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### Summary

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Software developer experienced in building responsive and scalable web applications. Strong background in component-based design systems, CI/CD automation, and testing frameworks.

### Experience

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#### **E&M TECHNOLOGY HOUSE** — *Software Developer*

*February 2025 – Present | Nairobi, Kenya*

- Built a secure internet banking platform with multi-factor authentication, automatic session management, and role-based access for retail and corporate customers.
- Developed a money transfer system supporting local and international payments (RTGS, SWIFT, EFT, PesaLink) with real-time currency exchange.
- Designed beneficiary management with customer verification, payment method routing, and support for one-time and saved recipients.
- Created bulk payment processing with Excel validation, batch transaction handling, and security verification.
- Supported forex rate with standard and negotiated exchange rates with automatic currency conversion across multiple currencies.
- Integrated mobile money (M-Pesa), government payments (iTax, eCitizen), and utility services with transaction tracking and error handling.
- Optimized transaction processing through API call optimization, intelligent caching, and proactive error handling with service downtime detection.
- Automated builds and deployments using CI/CD pipelines, enhancing release efficiency.
- Developed frontend components and optimized rendering performance for a large-scale government cash-for-work web app.
- Collaborated with the team to ensure scalable, low-latency service integration.
- Worked closely with stakeholders and demoed key milestones to gather feedback.

**Technologies:** Next.js, TypeScript, Tailwind CSS, Java, REST APIs, Docker, CI/CD

#### **Memory International Limited** — *Software Developer*

*January 2024 – December 2024 | Nairobi, Kenya*

- Led the development of a web-based HR management system transitioning from desktop to web.

- Developed system interfaces using ReactJS and TypeScript and built RESTful APIs with C#/.NET.
- Managed data with MySQL, implementing optimized queries for performance.
- Automated testing and deployment processes using CI/CD pipelines.

**Hyperskill** — *Technical Writer*

*December 2023 — Present | Remote*

- Author technical blogs on diverse programming topics, aimed at empowering developers and learners.
- Review and correct content written by other topic authors.
- Notable articles include:
  - [How V8 engine works in Node.js](#)
  - [Websocket for instant web communication](#)
  - [What is OPENAI API?](#)

**Beyond My Tribe** — *Software Developer Intern*

*April 2023 – December 2023 | Nakuru, Kenya*

- Integrated payment systems for improved member registration and donation processing.
- Integrated Google Analytics 4 to support digital strategy
- Built a content management system that enabled easy content upload on the website using Strapi.
- Integrated social media platforms to boost engagement on the organization's posts about their activities.

**Technologies:** JavaScript, jQuery, Bootstrap CSS, Strapi

**iTALANTA** — *Software Developer Intern*

*August 2022 – April 2023 | Nairobi, Kenya*

- Integrated OAuth for user authentication on the Elewa project.
- Developed pages and hero sections using Angular.js.
- Participated in code reviews and cross-team collaboration for new feature implementations.

**Technologies:** [Angular.js](#), Firebase

## Skills

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- **Frontend:** React.js, [Next.js](#), Angular, TypeScript, JavaScript (ES6+), Tailwind CSS, HTML5, CSS3
- **Back-End:** Java, C#/.NET, Ruby on Rails, REST APIs, Microservices
- **Infrastructure:** Docker, Kubernetes
- **Testing:** Jest, React Testing Library, Cypress
- **Databases:** MySQL, MongoDB, PostgreSQL
- **Collaboration:** Jira, GitHub Projects, Agile/Scrum

## Education

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**Cloud Native Computing Foundation (CNCF)** — *Kubernetes and Cloud Native Associate (KCNA)*

**Moringa School** — *Software Development* | January 2022 – August 2022

**University of Nairobi** — *Bachelor of Science in Statistics* | September 2017 – September 2021

## Projects

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- [Internet banking admin portal](#)  
A secure admin dashboard for managing users, transactions, and configurations within a banking platform. Built with [Next.js](#) and TypeScript, integrated with a Java backend.
- [Beyond My Tribe](#)  
A website for the Beyond my tribe organization, built with JavaScript, Strapi API, and Bootstrap CSS.
- [Ticket Hub](#)  
An event management platform with Pesapal payment integration, multi-role authentication, real-time inventory management, and organization approval workflows. Built with Next.js, TypeScript, PostgreSQL, and Prisma ORM.
- [Cycle with HN](#)  
A cycling blog platform with content management system for quick content uploads. Chronicles of my most memorable rides, from serene forest paths to challenging mountain trails. Built with Next.js, TypeScript, PostgreSQL, Prisma ORM, and Payload CMS.