SAMUEL KIPKEMBOI NDIEMA

Software Developer

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PROFILE

Versatile developer with a focus on AI-powered automation and full-stack web applications. I build scalable solutions using React, Next.js, Django, and cloud services. I also design automation workflows using AI tools and low-code platforms. Recent projects include an AI-enhanced academic assistance platform with real-time task tracking and automation. Currently building custom solutions for business automations as a freelancer.

EDUCATION

BSc. Computer Science Kericho

Graduated with Second Class Upper division.

❖ Immaculate Conception Mukuyu Secondary SchoolJan 2009 – Nov 2013
Kenya Certificate of Secondary Education (K.C.S.E)
Kitale

PROFESSIONAL EXPERIENCE

Self-Employed/Freelancer

Nairobi

Designing and building AI-powered workflow solutions, full-stack web systems, and automation tools for businesses.

- Developed an AI-enhanced academic assistance platform with real-time task tracking, automated deadline management, and internal document quality checks.
- Built a voice assistant using RetellAI and Make.com to handle bookings and follow-ups via phone calls.

 Created an AI-driven content workflow using Airtable and integrated LLMs to autogenerate content, perform SEO quality checks, manage approval pipelines, and publish directly to platforms like YouTube and LinkedIn via APIs.

- Maintained IT equipment and ensured consistent uptime for internet and network devices.
- Delivered software support including updates, patches, and VPN configurations, ensuring strict adherence to security and compliance protocols.
- Managed IT asset inventory across 4 locations (Malaba OSBP, Lwakhakha OSBP, Bungoma DTB, and Webuye Station), maintaining accurate records in KRA ICTAM and coordinating device assignments.
- Used STA Ticket System to efficiently handle and close numerous support tickets each month, consistently meeting SLA requirements.
- Delivered remote troubleshooting support to satellite offices using Citrix Director,
 resolving software and connectivity issues to support seamless operations.

- Debugged and customized a hospital management system for deployment at Sisto Mazzoldi Level 4 Hospital, addressing PHP dependency and XAMPP compatibility issues while rewriting legacy code to align with modern standards.
- Collaborated closely with hospital departments to gather requirements and customize system modules to align with their workflows, improving operational efficiency.
- Delivered remote technical support and user training using AnyDesk, guiding staff on navigating system features and troubleshooting issues.
- Successfully deployed a school management system at Marengoni Technical College, customizing features to meet academic and administrative needs while ensuring seamless functionality.

Cytonn Investments Nairobi

 Completed a three-month rigorous internship focused on modern web development and deployment practices (Cytonn Young Leaders Program).

- Configured and administered servers using Nginx and Apache; deployed Laravel applications on DigitalOcean.
- Developed web applications using Vue.js, React, and Node.js. Gained proficiency in web
 development, version control systems, and database administration using MySQL and
 ORM tools such as Eloquent and Prisma.
- Improved company website functionality and user experience by proposing and implementing interface enhancements.

PROJECTS

1. AI & Automation Projects

i. Voice Assistant for Booking Automation

Designed an AI voice assistant using RetellAI and Make.com for service-based businesses.

- Handled appointment booking, follow-ups, and phone call scheduling, reducing missed appointments.
- Integrated with Google Calendar to ensure real-time slot availability and automatic scheduling, and connected to Go High Level CRM to trigger reminders, follow-ups, and lead management automations.

ii. AI Content Workflow Pipeline

Developed an automated content generation and publishing system for internal and client use.

- Used Airtable, Make.com and different LLMs to automate content creation,
 SEO validation, and approvals.
- Enabled cross-platform publishing to YouTube, LinkedIn, and blogs.

2. Web & System Applications

i. Academic Assistance Platform

A platform inspired by EssayPro and Edusson, built to streamline academic service workflows.

 Implemented real-time task tracking, automated deadline calculations, and internal quality checks.

ii. SACCO Management System

Built for CBOs and table banking groups to manage finances and member data securely.

- Developed using Next.js. Included user portals and financial tracking.
- Designed with scalability and audit trail features in mind.

iii. School and Hospital Management System.

Deployed across Marengoni Technical College and Sisto Mazzoldi Level 4 Hospital.

- Customized PHP-based system for academic and healthcare workflows, including local hosting.
- Provided offline-first deployment, online backup automation, and remote support.

iv. Real Estate Application.

Part of Cytonn team enhancing a real estate website frontend and backend.

• Maintained Vue.js frontend with Laravel APIs.

v. Bursary Management System.

Academic project to streamline scholarship application and approval processes.

 Built using Django with user authentication and workflow stages for approvals.

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SKILLS

1.	. Technical Skills					
	i.	Web & Backend Development				
		o React.js	o Django o Node.js			
		o Next.js	o Vue.js o PHP			
		o Flask	o Laravel			
	ii.	ii. Programming Languages				
		o Python	o JavaScript o SQL			
	iii. Cloud & DevOps					
		o AWS	o Digital Ocean o Nginx o Apache			
	iv. Version Control & CI/CD:					
		o Git	o GitHub o GitLab			
2. AI & Automation Tools						
	C	RetellAI	o Go High Level CRM o Make.com			
	C	ElevenLabs	○ TypingMind ○ N8n			
	C	Zapier	○ Airtable Automations ○ OpenRouter			
3. Workflow & Project Tools						
	C	Trello	o Citrix Director o Notion			
	C	Jira	 Google Workspace 			
	C	Slack	o Agile Project Management			
4.	Other	· Core Competencie				
0		Prompt Engineering & API Integration • Voice Assistant Development				
0		Business Process Automation o No-Code/Low-Code Workflow Design				
0		System Deployment & User Training O Data Collection & System Customization				

CERTIFICATIONS & COURSES

- AI & LLM Development
 - o LangChain for LLM Application Development DeepLearning.AI
 - Prompt Engineering for Developers OpenAI & DeepLearning.AI
- Software & Cloud Development
 - o Python Essentials 1 & 2 Cisco Networking Academy
 - o AWS Cloud Practitioner Essentials AWS
 - Linux Shell Scripting for DevOps Coursera
- Design & Project Management
 - o Foundations of User Experience (UX) Design Google / Coursera
 - o Agile Project Management Google / Coursera

TRAININGS AND BOOTCAMPS

- Django Web Development with Python by Power Learning Project (PLP).
- Cybersecurity and Emerging Technologies Awareness Training by ICTA
- HCIA Security by Huawei.

<u>REFERENCES</u>				
John Karimi		jkarimi@cytonn.com		
HR, Cytonn Investme	ents, 2022			
Simon Siva		0727870371		
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* Collins Norm	an	254721764805 / 254724275330		
CTO, Research Soli	ations Network, 2023	collinspark1985@gmail.com		
Hezron Kakiy	'a			
Deputy Branch Mana	iger, NHIF - Kitale, 2021			