

KNOPH O. AYIEKO

IT Specialist / Software Developer / Virtual Assistant

☎ Phone: +254 740 327 958 | ✉ Email: knophayieko@gmail.com

Portfolio: www.knoph.dev | GitHub: [Knoph1](#) | LinkedIn: [Knoph Ayieko](#)

Nationality: **Kenyan** | ID: **3*****8** | D.o.B: **29th Dec 1999** | Location: **Nairobi/Eldoret, KE**

PROFESSIONAL SUMMARY

IT Specialist and Full-Stack Software Developer with 4+ years' experience building scalable web systems, supporting enterprise ICT operations and delivering digital products across government, NGO and private-sector environments. Adept in React, Next.js, Node.js, Python, Linux administration, national health information systems and virtual assistance.

Recognized for reliability, analytical thinking, problem-solving and delivering high-impact technical solutions with user-centered design.

CORE SKILLS & TECHNICAL COMPETENCIES

Technical

- **Front-End:** HTML5, CSS3, JavaScript (ES6+), React.js, Next.js, Tailwind CSS
- **Back-End:** Node.js, Express.js, Python (Flask/Django), PHP (Laravel), C# (ASP.NET)
- **Mobile:** Flutter, Kotlin
- **Databases:** MySQL, PostgreSQL, MongoDB, SQL Server, Firebase
- **DevOps & Tools:** Git/GitHub, Docker, Postman, Vercel, Netlify, GitHub Actions, CI/CD pipelines
- **Systems & Support:** Windows Server, Linux/Ubuntu, Networking (CCNA-level), ICT asset management
- **Health Systems:** KenyaEMR, CPIMS, KMHFR
- **CMS & Platforms:** WordPress, Moodle, Google Classroom
- **Cloud & Integration:** RESTful APIs, M-Pesa Daraja, JWT Auth, Payment gateways
- **Cybersecurity:** System hardening, vulnerability awareness, data protection compliance

Professional Skills:

- Technical documentation & training | Requirements analysis & solution design,
- Stakeholder support & communication | Team collaboration (Agile/Scrum),
- Problem-solving & analytical skills | Virtual assistant & administrative support

PROFESSIONAL EXPERIENCE

ICT Intern – Ministry of Education (DLP Programme), GoK

State Department for Basic Education, Kapseret Sub County Education Office

22nd October 2025 – 23rd December 2025 | Eldoret, Kenya | On-site

- Supported rollout and maintenance of Digital Literacy Programme devices across schools.
- Delivered technical support for networks, devices and school ICT infrastructure.
- Assisted in digital content deployment, reporting and ICT policy implementation.

Web Developer – Omni-Legacy Co. Ltd (Startup)

10th March 2025 – 9th May 2025 | Nairobi, Kenya | Hybrid

- Developed full-stack dashboards and APIs using React.js, Node.js and MongoDB.
- Built interactive UI components and optimized page responsiveness.
- Supported CI/CD workflows and code quality processes.

Software Developer – Division of NASCOP (Ministry of Health, GoK)

22nd April 2024 – 20th September 2024 | Nairobi, Kenya | Remote

- Rebuilt the national NASCOP website using PHP/WordPress for stability and accessibility.
- Enhanced SEO, performance and CMS management workflows.
- Improved user experience for public health stakeholders.

Back-End Developer (Web & Mobile) – Ashker Credit Solution (Ethiopian MVP)

18th November 2024 – 24th January 2025 | Addis Ababa, Ethiopia | Remote

- Built microfinance MVP using Flask, SQL and RESTful APIs.
- Designed core data models and loan processing workflows.
- Improved system security, performance and database reliability.

Health IT Intern – UNES Ltd. (USAID HealthIT & KDHE Projects)

1st February 2024 – 31st January 2025 | Nairobi & South Rift, Kenya | On-site

- Supported KenyaEMR, CPIMS and KMHFR national health systems.
- Conducted field system deployments, user training and troubleshooting.
- Provided database support, QA testing and reporting for county health facilities.

ICT Attaché – Kenya Power (KPLC)

12th May – 29th July 2022 | North Rift HQ – Eldoret, Kenya | On-site

- Assisted in network configuration, fibre operations and ICT infrastructure management.
- Maintained hardware/software systems and compliance documentation.

EDUCATION

Bachelor of Science (Information Technology) – University of Kabianga (UoK)

Kericho | *2nd September 2019 - 19th May 2023 | Graduated on 27th October, 2023*

- Second Class Honours (Upper Division)

Kenya Certificate of Secondary Education – St. Peter's Mumias Boys' High School

Kakamega | *20th February 2015 – 28th November 2018*

Kenya Certificate of Primary Education – Patrician Primary School, Kabongo

Eldoret | *9th January 2007 – 6th November 2014*

CERTIFICATIONS

- **Apply AI: Analyze Customer Reviews** offered by *ICT Authority, Kenya* through the *Cisco Networking Academy program* (31st October 2025)
- ICT Authority – **Data Analytics Training** by *Data breed Africa* (1st Dec 2025), **Foundational AI Training** by *Salaam Technologies* (15th Oct 2025), **Cybersecurity and Emerging Technologies Awareness Training** by *Cyber Shujaa* (29th Sept 2025)
- ALX Africa – **Software Engineering, Front-End Web Development** (7th Nov 2025), **Founder Academy** (7th Sept 2025), **AI Starter Kit** (15th April 2025), **Software Engineering, Back-End Web Development** (24th Jan 2025), **Freelance Academy** (12th Sept 2025), **AI Career Essentials, AiCE** (3rd Dec 2024), **Gig-at-a-Startup** (20th Nov 2024), **Virtual Assistant** (3rd Sept 2024), **Professional Foundations** (26th Sept 2024)
- CompTIA – **CompTIA A+, Core 1 & 2** (25th April, 2025)
- MoH Virtual Academy – **KenyaEMR+ Course, Level I** (30th June 2024)
- Cisco – **Cisco Certified Network Associate Routing & Switching** (24th Oct 2024)

PROFESSIONAL MEMBERSHIP

Association of Computing Practitioners – Kenya (ACPK) | Since **4th December 2024**

- **Membership No.:** PM000694 | **Designation:** Member in Good Standing
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SELECTED PROJECTS

- **SomaAi** – AI-powered CBC teaching assistant (React, PostgreSQL, OpenAI) soma-ai.co.ke
 - **E-Bronzy Ware** – Full-stack construction procurement platform (React, Node.js, Supabase) ebronzyware.com
 - **University of Kabianga Research Grants Portal** – Laravel/MySQL arg.kabianga.ac.ke
 - **AcePapers Writers Platform** – MERN Stack for online writers acepaper-writers.com
 - **Ashker Credit Solution** – Microfinance loan management, Ethiopian MVP (Flask, SQL)
 - **KenyaEMR 3.x & CPIMS** – National health informatics systems kenyahmis.org
 - **KMHFR Portal** – React-based public health data explorer kmhfr.health.go.ke
 - **NASCOP Website** – National HIV/AIDS (PHP/WordPress) rebuild nascop.or.ke
 - **Omni-Legacy Platform** – Full-stack website, Kenyan Private Tech Co. omni-legacy.tech
 - **Personal Portfolio Website** – Next.js + TypeScript + Tailwind CSS www.knoph.dev
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FREELANCE

Freelance Software Developer & IT Consultant

22nd June 2022 – 21st October 2025 | Global (LinkedIn, Upwork & Fiverr) | Remote

- Delivered digital systems to individual clients, NGOs, SMEs & education institutions.
 - Implemented LMS systems, improved operational workflows, created technical documentation.
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VOLUNTEER / EXTRACURRICULAR

Full-Stack Developer (Unpaid Intern) – E-Bronzy Ware Co. Ltd (ALX Africa)

20th October 2025 – 6th December 2025 | Nairobi, Kenya | Remote

- Built procurement system, automated CI/CD and improved deployment by 82%.

Frontend / Full-Stack Developer (Unpaid Intern) – SomaAi (ALX Africa)

6th October 2025 – 12th December 2025 | Nairobi, Kenya | Remote

- Developed responsive UI and integrated Supabase authentication and database flows.

Webmaster – Christian Life Community (CLC) in Kenya

12th May 2025 – 31st November 2025 | Nairobi, Kenya | Remote

- Managed website content, security and digital communication workflows
 - Volunteer IT Instructor, Socks for Feed Foundation: Digital literacy workshops and equipment maintenance support.
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SIDE HUSTLES / PERSONAL INITIATIVES

Omni-Legacy Co. Ltd (Startup)

- Founder & Chief Technical Officer (CTO) to a Kenyan private tech company
- Provide IT consulting, software development, device maintenance, networking and cybersecurity advisory to small businesses and individuals.

Entrepreneur & Business Owner

5th December 2018 – 25th November 2024

- Self-Employed (Eldoret & Kabianga – Kenya)
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AWARDS & RECOGNITION

- **Featured Contributor** – ALX Africa, 2025 | lifeatalxkenya.substack.com
 - **Innovation Champion** – University of Kabianga, 2023 | arg.kabianga.ac.ke
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PUBLICATIONS

- “Digital Health Systems Adoption in Kenya,” Medium Tech Journal, 2024
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CONFERENCES / WORKSHOPS ATTENDED

- Kenya Digital Health Summit – Attendee, 2024

PERSONAL ATTRIBUTES

- Ethical, disciplined and reliable
- Analytical and problem-solving oriented
- Strong communication, teamwork. self-driven, adaptable and service-oriented

INTERESTS

- Emerging Technologies, Digital Governance, Education & ICT Policy, Research, Projects
- Creativity, Adventure, Mentoring aspiring IT students, Community outreach programs

LANGUAGE

- English – Professional
- Kiswahili – Fluent
- Luhya (Marachi) – Native
- Kenya Sign Language (KSL) – Basic

OTHER QUALIFICATIONS

- Valid Passport: **BK624775**
- Valid Driver's License: **DL-8JVSAJ72Q**

REFEREES

- Available upon request.
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Portfolio: www.knoph.dev (Knoph1)

X-Space: [Knoph Ayieko](#)

Instagram: [Knoph Ayieko](#) | Facebook: [Knoph Ayieko](#)

Telegram: [@Knoph1](#) +254740327958 WhatsApp [Knoph](#)

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