

# KNOPH O. AYIEKO

IT Specialist / Software Developer / Virtual Assistant

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Portfolio: [www.knoph.dev](http://www.knoph.dev) | GitHub: [Knoph1](https://github.com/Knoph1) | LinkedIn: [Knoph Ayieko](https://www.linkedin.com/in/knoph-ayieko/)

Nationality: Kenyan | ID: 3\*\*\*\*\*8 | D.o.B: 29<sup>th</sup> 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

22<sup>nd</sup> October 2025 – 23<sup>rd</sup> 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)

10<sup>th</sup> March 2025 – 9<sup>th</sup> 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)

22<sup>nd</sup> April 2024 – 20<sup>th</sup> 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)

18<sup>th</sup> November 2024 – 24<sup>th</sup> 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)

1<sup>st</sup> February 2024 – 31<sup>st</sup> 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)

12<sup>th</sup> May – 29<sup>th</sup> 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.

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## EDUCATION

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

Kericho | 2<sup>nd</sup> September 2019 - 19<sup>th</sup> May 2023 / Graduated on 27<sup>th</sup> October, 2023

- Second Class Honours (Upper Division)

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

Kakamega | 20<sup>th</sup> February 2015 – 28<sup>th</sup> November 2018

### Kenya Certificate of Primary Education – Patrician Primary School, Kabongo

Eldoret | 9<sup>th</sup> January 2007 – 6<sup>th</sup> November 2014

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## CERTIFICATIONS

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

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## PROFESSIONAL MEMBERSHIP

Association of Computing Practitioners – Kenya (ACPK) | Since 4<sup>th</sup> December 2024

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

## SELECTED PROJECTS

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

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## FREELANCE

### Freelance Software Developer & IT Consultant

22<sup>nd</sup> June 2022 – 21<sup>st</sup> 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)

20<sup>th</sup> October 2025 – 6<sup>th</sup> 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)

6<sup>th</sup> October 2025 – 12<sup>th</sup> December 2025 | Nairobi, Kenya | Remote

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

### Webmaster – Christian Life Community (CLC) in Kenya

12<sup>th</sup> May 2025 – 31<sup>st</sup> 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

5<sup>th</sup> December 2018 – 25<sup>th</sup> November 2024

- Self-Employed (Eldoret & Kabianga – Kenya)

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## AWARDS & RECOGNITION

- **Featured Contributor** – ALX Africa, 2025 | [lifeatalxkenya.substack.com](http://lifeatalxkenya.substack.com)
- **Innovation Champion** – University of Kabianga, 2023 | [arg.kabianga.ac.ke](http://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.

