

# OWANO CANOL

## Network Systems Engineer

Full-Stack Development | Network Administration | Cloud & Systems Integration | DevOps

### PROFESSIONAL SUMMARY

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I am an Information Technology Professional with over 3 years of experience in software development, networking, and database management. I specialize in designing and developing full-stack applications, implementing secure and efficient network infrastructures, and optimizing system performance across client environments. Skilled in front-end and back-end development using React, Node.js, PHP and Express, with hands-on experience in RESTful APIs, MongoDB, and MySQL integration. I have practical expertise in configuring routers, switches, VLANs, Ethernet and ADSS cabling, network monitoring, and rack mounting, ensuring reliable connectivity and scalable network solutions. Experienced in deploying cloud and on-premises systems, automating workflows, and maintaining IT environments to meet organizational needs. Strong problem-solving, communication, and client-facing skills complement my technical capabilities, enabling me to deliver robust, user-centric solutions.

### WORK EXPERIENCE

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#### Network Systems Engineer

Atax Networks Limited (Maseno Group)

May 2025 – Present

- Installed, configured, and maintained routers, switches, and other network hardware to ensure reliable connectivity across client sites.
- Managed structured cabling systems including ADSS, Ethernet, and fiber optic cables, performing terminations, testing, and troubleshooting.
- Configured network settings, IP schemes, VLANs, and routing protocols to optimize network performance and security.
- Conducted rack mounting and organization of network devices, ensuring proper airflow, labeling, and accessibility.
- Monitored and diagnosed network issues using diagnostic tools, resolving connectivity and performance problems efficiently.
- Assisted in deploying and maintaining LAN/WAN infrastructures, including wireless access points and network management systems.
- Documented network configurations, changes, and standard operating procedures to support seamless system administration and troubleshooting.

#### Full-Stack Developer

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January 2025 – Present

- Designed and developed a comprehensive online learning platform integrating AI-driven features to personalize user experiences.
- Implemented secure authentication, course management, and interactive learning modules using React for the frontend and Node.js/Express for the backend.
- Developed RESTful APIs to facilitate seamless communication between system components and ensured efficient data handling with MongoDB.
- Styled the platform with Tailwind CSS, ensuring a responsive and user-friendly interface across devices.

#### Software Engineering Intern

Future Interns

Dec 2024 – Mar 2025

- Contributed to the development of scalable web applications using the MERN stack (MongoDB, Express.js, React, Node.js).
- Built dynamic frontend components with React and Tailwind CSS, enhancing user interaction and responsiveness.

- Developed secure backend APIs with Node.js and Express to support user authentication, CRUD operations, and data validation.

## Website Developer

Freelancer

Jan 2024 – April 2025

- Developed and deployed full-stack web applications using Express.js, Ruby on Rails, and Flask, including a portfolio website and a modern e-commerce platform.
- Integrated RealmDB for syncing local and remote databases in a code-sharing app, improving offline support.
- Implemented a responsive blog website with dark mode toggle and Umami for real-time analytics tracking.

## EDUCATION

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Maseno University

BSc. Information Technology - Software Engineering

Sep 2022 – May 2026

## TECHNICAL SKILLS

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Web Development (HTML, CSS, JavaScript, PHP) | Mobile App Development (Java, Kotlin, Flutter Basics) | Database Management (MySQL, MongoDB) | Networking and Cybersecurity | Software Engineering Principles | IT Support and Troubleshooting | Version Control (Git & GitHub) | UI/UX Design Basics | Data Analysis (Excel, Python)

## PUBLICATIONS

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- Personal Blog - <https://canolowana.vercel.app>
- Medium - <https://medium.com/@Canol001>
- Github - <https://github.com/Canol001>
- LinkedIn – <https://www.linkedin.com/in/owano-canol/>