

KELVIN KIPCHIRCHIR KIPTOO

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PROFESSIONAL SUMMARY

Certified Cyber and Cloud Security professional with 2+ years of experience in full-stack development, secure cloud architecture (AWS, GCP, Azure), and infrastructure hardening. Adept at designing and implementing secure CI/CD pipelines, conducting vulnerability assessments, and embedding security controls across cloud environments. Skilled in IAM, incident response, and DevSecOps practices. Proven ability to collaborate with DevOps teams to integrate security into the software development lifecycle and ensure compliance with standards such as NIST, ISO27001, and GDPR.

SKILLS SUMMARY

- **Cloud Security & Architecture:** AWS, GCP, Azure; Huawei Cloud (basic exposure); IAM, MFA, VPCs, shared responsibility model
 - **DevSecOps & CI/CD Security:** GitHub Actions, secure SDLC, Docker, Kubernetes
 - **Infrastructure-as-Code:** Terraform, CloudFormation, Python scripting
 - **Threat Management & Incident Response:** SIEM (Splunk), IDS/IPS, vulnerability assessment, incident handling
 - **Security Tools & Frameworks:** PFSense, Cisco ASA, NIST, COBIT, ISO27001
 - **Networking & Systems:** VPNs, routing/switching, endpoint protection, system hardening (Linux/Windows)
 - **Programming:** Python, SQL, Linux CLI
 - **Certifications:** CCNA (Networking, Security), CEH, AWS Security Bootcamp (Ongoing), SC-900, AZ-500, Kubernetes, CCNP, AWS Architect Associate, Huawei Security, Cisco CyberOps, DevNet, SOC Bootcamp, GDPR, PRINCE2
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EDUCATION & CERTIFICATIONS

- **Cloud Security Specialist Bootcamp** – Microsoft ADC & Cyber Shujaa Academy (*Apr 2025 - Jun 2025*)
- **Cybersecurity & Digital Forensics Bootcamp** – Kenyatta University (KIEP-SKIES) (*Mar 2025 - Jun 2025*)
- **Diploma in DevOps Engineering** – Alison (*Sep 2024 – Present*)
- **Diploma in Cybersecurity & GDPR** – Alison (*Jun 2024 – Sep 2024*)
- **SOC Analyst Bootcamp** – Cyber Shujaa (*Sep 2023 – Dec 2023*)

- **Bachelor's Degree in Computer Science** – Laikipia University (2016 – 2021)
 - **Certifications:**
 - *Cloud & Security:* AWS Certified Solutions Architect – Associate, AWS Security Bootcamp (Ongoing), SC-900, AZ-500, CEH
 - *Networking:* CCNA (Networking, Security), CCNP, Cisco CyberOps
 - *DevOps & Automation:* Kubernetes, DevNet
 - *Governance & Privacy:* GDPR, PRINCE2
 - *Other:* Huawei Security, SOC Bootcamp, Linux Essentials
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PROFESSIONAL EXPERIENCE

Cybersecurity Consultant & Full-Stack Developer (Freelance)

Jan 2024 – Present

- Developed and deployed secure full-stack applications (Laravel, Django, MERN)
- Embedded DevSecOps best practices into CI/CD pipelines
- Conducted penetration testing and infrastructure threat modeling
- Configured IAM roles and VPNs; advised on cloud security hardening (AWS, GCP)

ICT Security Intern – Kenya Revenue Authority (KRA)

Dec 2022 – Dec 2023

- Deployed secure systems, managed endpoint protection, and configured VPNs for more than 100 staff
- Implemented incident escalation, performed OS hardening, and managed workstation security
- Monitored network infrastructure and conducted patching and risk mitigation

Cybersecurity Intern – ICT Authority / PDTP Program

Dec 2022 – Dec 2023

- Participated in Presidential Digital Talent Program; completed security training (Coursera, Cisco, Huawei)
- Supported security operations and collaborated with teams on threat analysis and log monitoring

ICT Officer – IEBC

May 2022 – Nov 2022

- Supported national elections through secure system setup, KIEMS kit testing, and real-time tech support
- Maintained high availability of systems and printers at constituency data centers

Network & System Support Intern – KRA, Kenya Power

jan2021-May 2021

- Assisted in deploying workstations, formatting systems, configuring Cisco routers/switches
 - Supported VPNs, firewalls, network hubs, and SCADA/HMI/RTU exposure at substations
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PROJECTS & INITIATIVES

- **WebShield:** Vulnerability scanning tool aligned with OWASP Top 10, complete with PDF/CSV reporting and DevSecOps pipeline integration
 - **Cyber Kill Chain Lab:** Simulated cyberattack defense using MITRE ATT&CK, Snort, and Splunk for threat detection and logging
 - **Secure Infrastructure as Code:** AWS-hosted microservices provisioned with Terraform and integrated with security logging, IAM
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REFERENCES

Mr. Paul Kipngetich Rono – Deputy Returning Officer, IEBC

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Mr. Patrick Muita Maina – Senior ICT Manager, KRA

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