NEVILLE IREGI

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PROFESSIONAL SUMMARY

Curious and solution-oriented Software Engineer passionate about securing and strengthening digital infrastructures in Africa. Skilled in cloud and network security, Linux systems, Python, SQL, and secure web development, with hands-on experience designing scalable applications and uncovering vulnerabilities. Driven by a mission to help businesses thrive digitally while promoting safe, resilient, and efficient technology ecosystems.

WORK EXPERIENCE

Android App & Website Developer Intern | October 2023 - October 2024
Elite Designs Kenya
- Developed and launched multiple Android apps on the Google Play Store, enhancing brand visibility and user engagement; client satisfaction improved by 20%.
- Built and maintained responsive websites using WordPress, HTML, CSS, and JavaScript, achieving a 25% increase in online traffic and improved user experience.
- Customized WordPress themes and plugins to implement client-specific features and optimize functionality.
- Integrated third-party APIs and optimized websites for speed, scalability, and security.
- Collaborated with cross-functional teams and clients to gather requirements, implement feedback, and ensure timely project delivery.

Tech Support Intern | January 2018 - August 2018
Equity Bank Kenya Limited
- Trained 30–40 customers daily on digital banking tools, increasing adoption rates and contributing to a 5% revenue increase.
- Analyzed client feedback and usage data to onboard over 500 new mobile banking users through improved product guidance.
- Troubleshooted and resolved IT issues, improving system resolution efficiency by 120%.
- Assisted in testing and documenting new digital banking features, ensuring smooth deployment and adoption.

SKILLS

Technical Skills
- Front end development (HTML,CSS, JavaScript, React) mastery
- Cloud & Security Skills (AWS, GCP, Azure) proficiency
- Network security & configuration competency
- Backend Engineering proficiency
- Programming (Python, JavaScript, C, Bash, Powershell) proficiency
- Operating Systems (Linux, Windows) proficiency
- Database Management (SQL) proficiency
- Network Analysis (Wireshark, tcpdump) proficiency

- Tools (Visual Studio Code, AWS CLI) proficiency
- Vulnerability Assessment & Penetration Testing basic knowledge
- Git mastery
- API integration mastery

Soft skills

- Agile and scrum frameworks mastery
- Problem-solving
- Analytical thinking
- Initiative & self-learning
- Team collaboration

EDUCATION

- **BSc. (Hons):** Software Engineering | 2024 - 2027
  African Leadership University

CERTIFICATIONS

Cloud & Network Security Track | September 2025 - December 2025
Cyber Shujaa

- *Relevant Coursework:* Cloud & Network Security (Azure, AWS, GCP) – IAM, VPNs, Firewalls, Network Security Groups; Network Security & Protocols – OSI/TCP-IP, VLANs, ACLs, packet analysis (Wireshark, tcpdump); Secure Web & Application Development, Vulnerability Assessment & Penetration Testing.

PROJECTS

Flaws AWS Cloud Security Lab | November 2025 - December 2025

- Exploited AWS misconfigurations across S3, IAM, EC2 snapshots, metadata services, API Gateway, and Lambda to demonstrate real-world cloud attack chains and privilege escalation, while applying mitigation strategies aligned with AWS security best practices.

AWS S3 Enumeration Basics | November 2025 - December 2025

- Conducted AWS S3 enumeration and IAM privilege escalation in a simulated red team environment, uncovering hardcoded credentials and misconfigured bucket policies.
- Leveraged AWS CLI to pivot from anonymous access to high-privilege IAM administrator, exposing sensitive PII and financial data.
- Analyzed S3 bucket policies to explain access control flaws and provided mitigation strategies aligned with cloud security best practices.

AWS vulnerable_lambda | November 2025

- Exploited a vulnerable AWS Lambda function in a CloudGoat lab to escalate IAM privileges via SQL injection.

- Assumed misconfigured IAM roles using AWS STS and analyzed Lambda source code for serverless security flaws.
- Achieved full administrator access and extracted secrets from AWS Secrets Manager, demonstrating real-world cloud attack paths.

Azure Network Security & Application Security Groups Lab | November 2025 - December 2025
- Configured Azure Network Security Groups (NSGs) and Application Security Groups (ASGs) to enforce fine-grained, group-based access controls within virtual networks.

Azure Key Vault & Always Encrypted Lab | November 2025 - December 2025
- Implemented Azure Key Vault to securely manage encryption keys and application secrets.
- Configured Always Encrypted for Azure SQL Database to protect sensitive data at rest and in use.
- Developed a proof-of-concept application demonstrating secure client-side encryption and controlled data access**.**

AWS CloudGoat IAM Privilege Escalation Lab | November 2025 -December 2025
- Identified and exploited misconfigured IAM policies to achieve privilege escalation in a simulated AWS environment.
- Applied mitigation and hardening techniques aligned with least-privilege and cloud security best practices.

Quick-Open Vote System | October 2025 - December 2025
- Built a secure, full-stack voting platform using Node.js, Express, SQLite, and React (CDN).
- Designed RESTful APIs, implemented clean backend architecture, and developed a responsive frontend interface.
- Ensured data integrity, session management, and real-time vote updates for a reliable user experience.

Enterprise MoMo SMS Processing Web App | September 2025 - October 2025
- Built a web application to process Mobile Money SMS data using an ETL pipeline to parse, clean, and store transactions in a relational database.
- Developed a RESTful API backend (Python, SQLite) with Basic Authentication and a frontend dashboard for visualization and analysis.
- Applied data structures and algorithms to optimize transaction search, filtering, and retrieval.

Threat Detector | July 2025
- Developed a threat detection and incident response tool integrating ThreatFox APIs to search and filter Indicators of Compromise (IOCs).

System Engineering and DevOps | May 2025 - August 2025
- Worked with Linux servers, load balancers, SSH, and firewalls during backend website deployment and infrastructure management.

Linux usage and Shell Scripting | 2023 - Present

- Designed and maintained Bash scripts to streamline Linux-based workflows, including a submission reminder tool for task automation.

LEADERSHIP & VOLUNTEER ACTIVITIES

Student Volunteer | September 2024 - March 2025
The Wellness Center, ALU Rwanda
- Facilitated weekly peer support sessions and organized stress-relief workshops, increasing student engagement by 40%.

Chess Mentor, Ngong-Kenya | February 2018 - Present
Oloolaiser High School
- Delivered structured chess lessons and organized practice matches, enhancing students' critical thinking skills and achieving a 50% improvement in their performance, with several students qualifying for regional competitions.

REFEREES

Available Upon Request