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Software Development Instructor

PROFESSIONAL SUMMARY

Results-oriented ICT Trainer and Software Development Instructor with a Bachelor's in Computer Science and hands-on experience teaching programming, web development, and cybersecurity. Skilled in Python, HTML, CSS, JavaScript, SQL, and Android basics, with a proven record of designing student-centered curricula and guiding learners to complete real-world projects. Passionate about using modern technologies to inspire innovation and bridge the gap between academic learning and industry practice.

CORE COMPETENCIES

- Technical Instruction: Curriculum Design • Competency-Based Training • Assessment & Mentorship

- Software Development: Python • HTML5/CSS3/Bootstrap • JavaScript/React • SQL Databases • Java/Kotlin (Android)

- Data & AI: Pandas • NumPy • Scikit-learn • SQL for Data Analysis

- Systems & Security: Linux Administration • Network Security • Ethical Hacking • Virtualization

- Tools: VS Code • Git/GitHub • Android Studio • Figma • MySQL Workbench • Moodle

- Soft Skills: Classroom Management • Communication • Innovation • Critical Thinking • Team Leadership

PROFESSIONAL EXPERIENCE

ICT & Cybersecurity Trainer — Atiam College, Nairobi

March – May 2025

- Delivered 50+ practical sessions on web development, Python programming, and cybersecurity for certificate-level students.

- Designed and implemented project-based learning activities that improved student engagement by 40%.

- Supervised 15+ student capstone projects — 5 of which were deployed on GitHub and presented during college showcases.

- Updated course content to align with **TVET** and modern industry standards, enhancing course relevance and employability outcomes.

- Conducted Linux and network configuration labs, achieving a 95% system uptime in classroom environments.

ICT Support Intern — Alice Hope International Academy, Nairobi

May – November 2024

- Provided daily ICT support to 50+ staff and students, reducing technical issue resolution time by 30%.

- Assisted in maintaining LAN infrastructure, servers, and digital learning systems to ensure 99% service availability.

- Introduced secure cloud-based collaboration tools (Google Workspace, Trello), increasing team productivity by 25%.

- Developed digital learning resources and trained teachers on safe technology integration.

PROJECTS

MobiBoard – Digital Noticeboard Application
Developed a responsive web platform for internal announcements using HTML, CSS, JavaScript, and MySQL — improving communication efficiency by 40%.

Agrobots – IoT Farm Security System
Built and demonstrated a prototype AI-powered robot using Python and motion sensors to detect farm intrusions, increasing automation reliability during field tests.

LinBug – Linux File Integrity Checker
Created a Python-based tool that automates file change detection, reducing manual security audit time by 60%.

EDUCATION

Bachelor of Science in Computer Science — Kibabii University (2021 – 2024)
KCSE — Ugenya High School (2016 – 2019)
KCPE — Raduodi Primary School (2008 – 2015)

CERTIFICATIONS

- Google Cybersecurity Professional Certificate (2025)

- CompTIA Security+ (Expected Nov 2025)

- AWS Certified Cloud Practitioner (Expected Dec 2025)

- Cisco Cybersecurity Essentials

- ITIL Foundation (Service Management Basics)

ACHIEVEMENTS

- Delivered cybersecurity awareness sessions for over 30 students, improving safe computing practices across campus.

- Co-developed open-source Python and Linux training tools adopted by multiple ICT students.

- Mentored student teams whose applications were showcased in college tech exhibitions.

- Recognized for excellence in digital learning innovation and student mentorship at Atiam College.

ADDITIONAL INFORMATION

- Fluent in English and Swahili

- Experienced in hybrid and on-site instruction

- Available for full-time or contract training engagements

REFERENCES

Dr. Yonah Etene – CoD Computer Science – Kibabii University

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Mrs. Clinton Ochieng' – AI and Software developer

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