VIOLA CHEROP SANGUT

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PROFESSIONAL SUMMARY

A highly experienced DevSecOps Engineer with in-depth knowledge in Software Development, Cloud Computing, and Cybersecurity. With a strong background in Computer Science, I bring a blend of expertise focused on seamlessly integrating security into the entire Software Delivery process to help individuals and organizations protect their data and information systems. I have a proven track record of designing and implementing secure CI/CD pipelines, automating security testing, and managing containerized environments to ensure the robustness of applications.

As an enthusiastic learner and proactive team player, I am committed to delivering timely and high-quality results. My assertive communication style, coupled with strong self-leadership and emotional intelligence, allows me to effectively collaborate with cross-functional teams, drive security initiatives, and contribute to the overall success of projects. I am passionate about staying current with the latest industry trends and continuously enhancing my skills to tackle evolving challenges in cybersecurity and software development.

WORK EXPERIENCE

HEALTH INFORMATICS OFFICER

Elizabeth Glaser Pediatrics AIDS Foundation [March 2024 – to date] - **Nairobi/ Kenya**

1. **System Monitoring and Support**: Provided real-time technical support, resulting in a reduction of system downtime for health informatics systems by more than 90%.
2. **Data Management and Automation**: Developed scripts to automate data extraction for program monitoring and reporting. Streamlined data uploads to national and organizational databases and helped the project achieve 98% reporting rate.
3. **Collaboration**: Worked with internal teams, external partners, and stakeholders to implement and maintain health informatics systems. Facilitated training sessions to ensure end-users were equipped to use new technologies effectively.
4. **Deployment Support**: Supported the deployment of health information systems across multiple projects, ensuring system quality and integrity through rigorous testing and validation processes before and after deployment. Assisted more than 130 health facilities access health information system (KenyaEMR) hence improving healthcare provision.
5. **Data Protection**: Ensured the security of collected and stored data by implementing robust protection measures in compliance with Data Protection Regulations like HIPAA.

DEVSECOPS TRAINEE

Cybersafe Foundation [March 2023 – November 2023] - **Nairobi, Kenya/Remote**

1. Completed extensive cybersecurity training, gaining a robust foundation in network security, endpoint security, cloud security, and data protection. This training equipped me with the skills to identify and mitigate security risks across various environments.
2. Developed proficiency in DevSecOps processes, tools, and techniques, learning how to seamlessly integrate security practices into the CI/CD pipelines to enhance the overall security posture of applications and systems.
3. Acquired skills in automating the testing of systems and code using Static Application Security Testing (SAST), Dynamic Application Security Testing (DAST), and Software Component Analysis (SCA). This led to a deeper understanding of how early identification of vulnerabilities can reduce security risks during development.
4. Practiced secure coding techniques across multiple programming languages, including C, C++, PHP, Python, and JavaScript, which helped me understand how to eliminate security-related bugs and improve code integrity.
5. Gained hands-on experience in securing and monitoring data at rest, in transit, and in use. I learned how to implement encryption and monitoring protocols that prevent unauthorized access and contribute to better compliance with data protection regulations.
6. Worked on managing and securing containerized environments using Docker and Kubernetes, which enhanced my understanding of how to ensure high availability and security of applications.

SASAKAZI TECH TALENT

Eldohub Foundation [February 2023 – May 2023] - **Nairobi, Kenya/Remote**

Worked with Noelas Tailoring Enterprises under the SasaKazi Program offered by Eldohub.

1. Developed an E-Commerce website for Noelas Tailoring Enterprises using WordPress which helped the business increase customer reach.

2. Boosted the business's online presence by 90% through strategic social media integration, resulting in higher customer engagement and increased website traffic.

HEALTH INFORMATICS INTERN
Elizabeth Glaser Pediatrics AIDS Foundation [March 2022 – September 2022]- **Nairobi/ Kenya**

1. Designing and development of web-based m-health solutions.
2. Understanding existing EMR (eHealth and mHealth), in-house, and donor systems.
3. Providing technical support to existing eHealth/mHealth systems in supported health facilities.
4. Supported routine EMR database uploads to the National Data Warehouse.
5. Successfully trained over 50 health workers on new eHealth/mHealth systems, leading to an increase in system adoption and usage.

IT SUPPORT INTERN
Naivas Limited -Headquarters [March 2019 – June 2019] - **Nairobi, Kenya**

1. Installed and configured computer hardware, software, systems, networks, printers, and scanners for more than 10 Naivas branches around Nairobi.
2. Monitored and maintained computer systems and networks for Naivas offices and retail branches which ensured smooth running of operations 24/7.
3. Resolved 95% of hardware and software issues, minimizing disruptions and enhancing employee productivity.
4. Troubleshot system and network problems, diagnosing and solving hardware and software faults.

EDUCATION AND TRAINING

Bachelor's Degree-Computer Science
Kenyatta University [28 Aug 2016 – 22 Jul 2021]
Address: 43844, 00100 Nairobi (Kenya) **Website:** www.ku.ac.ke

Developing Applications with Google Cloud
Google Cloud [Oct 2022 – Dec 2022]
Link: https://coursera.org/verify/specialization/2MQMM6BR2KAG

Advanced Excel Training
Excel Pro Consulting Limited [July 2022]
Address: St George's House, 4th Flr Parliament Road, 00200 NAIROBI (Kenya)
Website: https://www.excelpro.co.ke/

Developing a Google SRE Culture
Google Cloud [Nov 2022]
Website: https://coursera.org/verify/5N2Y29UVZXYM

Azure Introduction to Cloud Services
Udemy Online Courses [June 2021 – Jul 2021]
Website: https://www.udemy.com/certificate/UC-491f76a1-93ff-4f8e-9bab-068f9b8569d9/

SKILLS

1. **DevSecOps**: Expertise in Secure Software Development Lifecycle (SDLC), Static and Dynamic Application Security Testing (SAST/DAST), Software Composition Analysis (SCA), Infrastructure as Code (IaC), and Compliance as Code.
2. **Containerization Technologies**: Skilled in managing and deploying containerized applications using Kubernetes and Docker, with a strong focus on CI/CD pipeline integration.
3. **Software Development**: Proficient in Python, Django, JavaScript (NodeJS, ReactJS), and Java, with experience in building scalable and secure applications.
4. **Data Protection Act and Regulation**: In depth understanding of Data protection Laws covering principles like lawfulness, fairness, transparency, accuracy, data minimization, purpose limitation, storage limitation, security, and accountability. Knowledge of compliance standards like HIPAA, PCI-DSS.
5. **Computer Networks**: Competent in network defense, TCP/IP protocols, VPN configuration, and DNS management, with a focus on securing and maintaining robust networks.
6. **Health Information Systems**: Proficient in managing and supporting health information systems such as KenyaEMR, DHIS, and DWAPI, contributing to improved healthcare delivery.
7. **Cloud Platforms**: Well-versed in cloud computing with hands-on experience in Azure, Google Cloud, and AWS, including cloud

architecture and service deployment

8. **Operating Systems**: Advanced knowledge of Linux/Ubuntu environments, with experience in system administration and automation.
9. **Database Systems**: Experienced in managing and optimizing databases, including MongoDB, SQL, and PostgreSQL, ensuring data integrity and performance.
10. **Troubleshooting and Problem-Solving**: Strong analytical and diagnostic skills, with a proven ability to identify and resolve complex technical issues efficiently.
11. **Communication and Collaboration**: Excellent verbal and written communication skills, with a track record of effective teamwork and cross-functional collaboration.
12. **Languages**: Fluent in English and Swahili, with full proficiency in speaking, reading, listening, and writing.

PROJECTS

Wakulima - Wadogo Initiative: Online Interaction System for Small Scale Farmers in UasinGishu: [2018 – 2020 Final Year Project]
Accomplished Project objectives:
- Developed a web application using Django Framework that provided an online platform where farmers in Uasin Gishu can rent equipment, find veterinary help, and hire farming land.
- Created a platform where the farmers can interact with each other through an online chat room.

Health Informatics System: [2022: Elizabeth Glaser Pediatric AIDS Foundation]
Accomplished Project objectives:
- Worked with the Health Informatics Team to develop a web application using React/Node JS that helped manage informatics assets, facilities servers, and a ticketing platform to support requests.

Monitoring Containerized Applications: [2023: Cybersafe Foundation-Cybergirls Fellowship]
Accomplished Project objectives:
- Demonstrated how to monitor-containerized applications for performance and security with Wazuh SIEM solution.

Compliance as Code in CI/CD pipelines: [2023: Cybersafe Foundation-Cybergirls Fellowship]
Accomplished Project objectives:
- Demonstrated how to automate cybersecurity compliance standards using Compliance as Code in a CI/CD pipeline.
- Demonstrated knowledge in automated software testing and Infrastructure as Code.

RECOMMENDATIONS

Available upon request.