

Clemence Sedem Agozi

Cyber Security Analyst and Software Engineer

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Summary

With 7+ years of hands-on experience in software engineering, I have consistently delivered innovative solutions that drive business productivity. My expertise spans the design, development, and management of large-scale applications across multiple platforms, ensuring they are both fault-tolerant and scalable. My technical toolkit includes proficiency in architecture development, database management, and Linux server administration.

In recent years, I have expanded my focus to include cybersecurity, where I excel in Vulnerability Assessment and Penetration Testing (VAPT) as well as Cyber Threat Intelligence. This dual expertise allows me to bridge the gap between secure software development and robust cybersecurity practices, ensuring that applications are not only functional but also resilient against potential threats. My role in Cyber Threat Intelligence involves proactive monitoring, analysis, and response to emerging threats, ensuring that my organization remains one step ahead of cyber adversaries.

My commitment to fostering diversity in tech has led me to mentor nine female developers in Ruby on Rails through the Rails Girls initiative. Additionally, I have shared my insights with the African tech community by presenting at the African Ruby Mini-Conference by Nairuby, engaging over 50 software developers.

This unique blend of skills allows me to approach challenges with a security-first mindset while ensuring software systems are robust and scalable.

Education

2022 – 2023 Accra, Ghana	MSc. Digital Forensics and Cybersecurity , GIMPA 🔗
2019 – 2019 Accra, Ghana	Certificate in Cybersecurity , AITI 🔗
2013 – 2017 Accra, Ghana	BSc. Information Technology Management , UPSA 🔗

Professional Experience

2024 – present Accra, Ghana	Application Developer , CalBank 🔗 <ul style="list-style-type: none">• Providing secure API as a wrapper around the core banking system to be consumed by the development team.• Designing and Implementing Secure Architecture that communications with the telcos in Ghana.• Security source code review within the project implementation team.• Design and building secure Backend Applications• Running Application Security Scan.
2024 – 2024 Accra, Ghana	Project Implementation Officer , CalBank 🔗 <ul style="list-style-type: none">• Providing secure API as a wrapper around the core banking system to be consumed by the development team.• Designing and Implementing Secure Architecture that communications with the telcos in Ghana.• Security source code review within the project implementation team.
2022 – 2023 Accra, Ghana	Senior Ruby Engineer , AZA Finance 🔗 <ul style="list-style-type: none">• Mentored, trained, and supported engineers in order to develop in-house engineering skills.• Optimized application performance and test coverage.• Provided support to customers including triaging any issues• Feasibility and effort estimations.

2022 – 2022	Senior Software Engineer, Andela ↗ <ul style="list-style-type: none"> Working with the assigned organization with Backend engineering Mentoring junior engineers
2021 – 2022 Accra, Ghana	Backend Engineer, expressPay Ghana ↗ <ul style="list-style-type: none"> Managed and scaled the Ghana.Gov ↗ platform that provides support in terms of computerized workflow to over 3 million people. Attained an increase in response time from 109 ms to 45 ms per 100 transactions. Decreased developer support response time from 24 hours to 1 hour. Prioritizing Object-Oriented Development Principles.
2020 – 2022 Tema, Ghana	Software Engineer (Freelance), Britannia Medical Center ↗ <ul style="list-style-type: none"> Improved database response time through indexes and views from 148 ms to 90 ms Engineered and built a responsive management dashboard for 15 employees' usage. Revamped API response time from 120 ms to 54 ms. Prioritizing Object-Oriented Development Principles. Leveraged SOLID principles to achieve concise architecture
2020 – 2021 Accra, Ghana	Software Developer, getINNOtized GmbH ↗ <ul style="list-style-type: none"> Maintained and scaled the Acrelec ↗ project to expand to other European countries. Debugged and fixed the slow response time of the Angular front-end used by over 68 restaurants in Europe. Delivered a speech at the company's workshop of 46 employees on effective API design. Led a team of 4 engineers to design the API for a hospital management system. Prioritizing Object-Oriented Development Principles. Mentored 3 junior developers
2017 – 2019 Accra, Ghana	Software Application Developer, appsNmobile Solutions ↗ <ul style="list-style-type: none"> Designed and built a Fintech ↗ application that serves over 2000 clients. Led a team of 3 to develop security policies for PCI-DSS certification. Designed and deployed a voting system ↗ that serves over 40 award schemes in Ghana. Authored a secure coding policy for the development department of 10 developers. Prioritizing Object-Oriented Development Principles. Authored the road map for ISO-270001 certification Mentored 6 junior developers

Skills

Programming Languages

Ruby, Python, Java, JavaScript, TypeScript, Elixir, PHP, C#

Databases

PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, Meilisearch

Version Control and DevOps

Git, GitHub, GitLab CI, Docker, Gitflow

Cyber Security and Penetration Testing

Risk and Compliance, Information Security, Privacy and Data Protection, VAPT, Application Security, API Penetration Testing, Cloud Security

Frameworks

Phoenix Framework, Ruby on Rails, Sinatra, Django, Django Rest Framework, Symfony, Laravel, NestJs, Spring MVC, Spring Boot

Cloud Computing

AWS, Azure, Heroku, DigitalOcean, Linode

Operating Systems

Linux, Windows, Mac

Certificates

- EC Council Certified Threat Intelligence Analyst (CTIA)
- Certified AppSec Practitioner (CAP) [↗](#)
- Certified in Cybersecurity (CC) [↗](#)