

# Thomas Okoyo

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**Security Engineer** with 3+ years of experience in blending software development, DevSecOps, and application security. Skilled in building and securing APIs, automating security checks in CI/CD pipelines and conducting both offensive and defensive security operations. Experienced in Dockerized deployments, code reviews, and developer enablement for secure coding.

## Skills

- **Languages:** Java, JavaScript, Python
- **Frameworks & Platforms:** Jakarta EE, Spring Boot, Node.JS, Express, Flask
- **Database:** MS SQL, Mongo, Postgres, MySQL, MS SQL
- **Security Tools:** Frida, Burp Suite, OWASP ZAP, SQLMap, Nmap, Wireshark, Drozer, ADB, MobSF
- **DevSecOps & Automation:** Gitlab CI/CD, GitHub Actions, Jenkins, Docker, Docker Compose, SAST/DAST integration
- **Development & Infrastructure:** Restful APIs, microservices, Containerization, Linux systems
- **Security Practices:** Secure Coding, Code Audits, Reverse Engineering, Threat Emulation, Dynamic Instrumentation, secure architecture review
- **Methodologies & Standards:** OWASP Top 10, MITRE ATT&CK, SANS Top 25, PTES

## Experience

JAN 2024 – CURRENT

### Information Security Analyst | Eclectics International Ltd | Nairobi, Kenya

Simulated threat scenarios for financial applications and developed Frida scripts to test app behavior and tamper detection. Led developer training on secure coding, OWASP Top 10 awareness, and mitigating critical vulnerabilities. Performed code reviews and integrated static and dynamic analysis tools into CI/CD pipelines across multiple fintech projects. Provide clients with actionable advice on hardening their internet-facing services and mitigating risk exposure to cloud deployments.

APRIL 2022 – DECEMBER 2023

### Junior Information Security Analyst | Eclectics International Ltd | Nairobi, Kenya

Conducted code scan, conduct vulnerability assessment on the applications developed, scan and analyze the network traffic for rogue access points, conduct awareness campaigns in the company with regards to online safety, evaluate emerging security trends for potential adoption.

JAN 2022 – MARCH 2022

### Information Security Intern | Eclectics International Ltd | Nairobi, Kenya

Conduct network scan and awareness campaigns, advice on emerging security threats across the financial sector.

## Education

JULY 2021

Bachelor of Science Computer Science | Pwani University | Kilifi, Kenya

- Second class Lower Division

## Projects

### INSECURE API

- The deliberately Insecure API is a project demonstrating common logic flows and security weaknesses found in real world APIs.

**GitHub:** <https://github.com/tommyokoyo/Insecure-API>

### FRIDA SCRIPTS FOR DYNAMIC INSTRUMENTATION

- Custom Frida scripts for live analysis and manipulation of Android applications, used in security testing and reverse engineering labs.

**GitHub:** <https://github.com/tommyokoyo/Frida-scripts>

### PORTOFOLIO

- Personal profile and blog covering security topics, tools, and hands-on walkthroughs.

**Website:** <https://okoyo.dev>

### MPESA SIMULATOR

- Offline-ready simulator replicating M-Pesa Daraja APIs, built to support integration testing for payment systems without access to live endpoints.

**GitHub:** <https://github.com/tommyokoyo/MpesaSimulatorDemo>