KOUAMÉ ISSIKA AYMERIC THÉOPHILE COKANH

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PROFESSIONAL SUMMARY

Computer Science student and former SWE engineering intern specializing in production web applications integrated with AI capabilities (Python, FastAPI, React, PostgreSQL). Skilled in LLM integration, semantic search, asynchronous data pipelines, and building autonomous agent workflows. Backed by practical cybersecurity training (CompTIA Security+ SY0-701 curriculum), with hands-on expertise in SIEM operations, vulnerability management, and competitive CTF (TryHackMe Top 20%). Consistently applies secure-by-design principles—including multi-layered authentication, input validation, and prompt-injection defense—across full-stack environments.

EDUCATION

B.Sc. in Computing — Africa Vision University Sep 2024 – Present

Abidjan, Côte d'Ivoire | GPA: 3.8/4.0

PROFESSIONAL EXPERIENCE

Full-Stack Engineering Intern — Atihmam Conseils Côte d'Ivoire | Present

- Develop and maintain a production AI-powered Applicant Tracking System (ATS) that automates CV ingestion, candidate data extraction, and duplicate detection, replacing manual recruiter screening.
- Build full-stack features with React, FastAPI, and Supabase/PostgreSQL, covering recruiter pipelines, candidate workflows, and analytics dashboards.
- Implement semantic-similarity matching and LLM-assisted candidate evaluation to rank applicants against job requirements and surface duplicate profiles.

SELECTED PROJECTS

AI Grader — LLM-Assisted Assessment Platform

Python, FastAPI, React, Supabase, Pydantic

- Built a full-stack platform that grades academic submissions against rubrics and returns structured, criterion-level feedback via LLM integration.
- Enforced Pydantic schema validation on all model outputs and implemented authentication and prompt-injection safeguards to protect grading integrity.

Local-First AI Agent

Python, LangChain, SQLite, DeepSeek, Groq, PySide6, Whisper

- Engineered a desktop and CLI assistant with persistent SQLite conversation memory, automatic multi-provider LLM fallback (DeepSeek, Groq), and tool execution.
- Added human-approval gates for sensitive actions and prototyped Whisper voice input and an Android companion workflow.

Susie — AI Coding Assistant for VS Code

TypeScript, Node.js, Fastify, WebSockets, DeepSeek

- Developed a VS Code extension backed by a Fastify service that streams DeepSeek responses to the editor in real time over WebSockets.
- Implemented per-install authentication to secure API access and isolate user sessions.

Async Web Scraper & Data Pipeline

Python, aiohttp, Playwright, SQLAlchemy, SQLite, Streamlit

- Designed an asynchronous scraping pipeline with configurable concurrency limits, retry logic, and robots.txt-aware crawling, using Playwright for JavaScript-rendered pages.
- Built extraction, normalization, and deduplication stages feeding a Streamlit dashboard for price-history analysis and CSV export.

Stock Price Direction Prediction

Python, scikit-learn, XGBoost, Pandas, NumPy, yfinance

- Built a time-series classification pipeline validated with chronological holdout and expanding-window cross-validation to prevent look-ahead leakage.
- Benchmarked models against a naive baseline and reported that none showed meaningful predictive skill, demonstrating rigorous, honest evaluation methodology.

CYBERSECURITY PROJECTS & CTF

Wazuh SIEM Home Lab — Endpoint Monitoring, Malware & Vulnerability Detection

Wazuh, Sysmon, VirusTotal, VirtualBox, Windows, Kali Linux

- Deployed a Wazuh manager (OVA on VirtualBox) and a Windows endpoint agent via PowerShell, with Sysmon telemetry, and configured real-time File Integrity Monitoring on c:\Windows\System32 to alert on file changes with MD5/SHA-256 hashes.
- Integrated the VirusTotal API with Syscheck events and validated end-to-end detection by correlating FIM (rule 550) and VirusTotal (rule 87105) alerts on an EICAR test file.
- Enabled the Vulnerability Detector against NVD/CVE data and triaged findings by CVSS severity, software version, and binary path.

Segmented School Network — Cisco Packet Tracer

VLANs, 802.1Q, Inter-VLAN Routing, DHCP

- Designed and configured a three-switch, single-router campus network with six VLANs (Administration, Finance, Staff, Computer Lab, Guest Wi-Fi, Servers), using router-on-a-stick subinterfaces for inter-VLAN routing.
- Automated addressing with per-VLAN DHCP pools and excluded ranges, and placed guest Wi-Fi and servers on dedicated segments over 802.1Q trunks.

Linux Firewall Hardening — iptables on Kali Linux

iptables, netfilter, Kali Linux, TCP/UDP, ICMP

- Built a default-deny host firewall (INPUT policy DROP) with stateful rules (ESTABLISHED, RELATED) and explicit allows for loopback, SSH, HTTP, HTTPS, and DNS, ordering rules to avoid locking out remote access.
- Restricted MySQL (port 3306) to a single trusted source IP, blocked and rejected specific hosts and IP ranges, and disabled ICMP echo.
- Added LOG rules with a prefix ahead of the final DROP to trace blocked traffic via dmesg and syslog, and persisted rules across reboots with netfilter-persistent.

TryHackMe — Top 20% Rank

28 rooms completed, 7 badges

- **Offensive:** Completed 13 CTF and exploitation rooms (Mr. Robot, Kenobi, Blue, RootMe, Ignite, Pickle Rick, Basic Pentesting, Bounty Hacker, Vulnversity, Gatekeeper, Crack the Hash, Simple CTF, Wgel CTF), practicing web app exploitation, privilege escalation, hash cracking, file exfiltration, and service misconfiguration abuse.
- **Defensive & Foundations:** Active Directory Basics, Networking Concepts, Cryptography, Linux and Windows Fundamentals, Defensive/Offensive Security Intro, Writing Pentest Reports.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, C++, Java, C#, Dart, PHP, HTML/CSS

Backend & APIs: FastAPI, Node.js, Express, Fastify, Flask, REST, WebSockets, Pydantic, SQLAlchemy

Frontend & Mobile: React, React Native, Flutter

AI/ML: LLM Integration, AI Agents, Semantic Search, Prompt Engineering, scikit-learn, XGBoost, PyTorch, TensorFlow, Pandas, NumPy, Whisper

AI Tools & Platforms: ChatGPT, Gemini, Claude, LangChain, DeepSeek, Groq

Cybersecurity & Networking: Wazuh (SIEM/XDR), Sysmon, VirusTotal, File Integrity Monitoring, Vulnerability Management (CVE, CVSS, NVD), Kali Linux, iptables (Linux Firewall), Shodan, Penetration Testing, Privilege Escalation, Hash Cracking, Active Directory, Cisco Packet Tracer, VLANs, Inter-VLAN Routing, DHCP, 802.1Q

Databases: PostgreSQL, Supabase, MySQL, MongoDB, SQLite, Firebase

Tools & Security: Git, GitHub, Playwright, Streamlit, Jupyter, Authentication & Authorization, Input Validation, Prompt-Injection Mitigation

CERTIFICATIONS

- **Cyber Security Bootcamp: CompTIA Security+ (SY0-701) Preparation** — SN-IC Online Hackerspace (Jun–Oct 2026)
- **Oracle Cloud Infrastructure AI Foundations Associate** — Oracle University (Aug 2025)
- **JavaScript Algorithms and Data Structures** — freeCodeCamp (Aug 2025)
- **Scientific Computing with Python** — freeCodeCamp

Standard rewrite