

Leonard Sambu

Security Researcher | Smart Contract Auditor | AI Agent Engineer | Fullstack Developer

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Professional Summary

I find bugs in DeFi protocols for a living. I've audited 40+ protocols (including Frax, GMX, PancakeSwap, and Morpho) and disclosed critical vulnerabilities like an sfrxETH underflow and signature bypasses that could have drained millions. I write PoCs in Foundry, run the edge cases others skip, and I don't stop until the attack surface is clean.

Beyond auditing, I build. I ship fullstack production apps, including a live dairy cooperative management system in Kenya (maziwa-coop.pages.dev) and a farm management PWA that replaced paper records with a serverless edge stack. I speak Solidity, React, Hono, and whatever infra gets the job done. I also orchestrate AI agents to automate scanning, log analysis, and exploit generation.

All of this sits on a foundation of running teams across media, education, and tech, enabling me to talk to devs, executives, and farmers with equal fluency.

Technical Skills

Security & Auditing	Smart contract auditing, vulnerability research, penetration testing, threat modeling, code review, responsible disclosure, OWASP Top 10, digital forensics
Blockchain	Solidity, Foundry, Hardhat, Slither, Mythril, Echidna, EVM internals, proxy patterns (UUPS/Transparent), ERC-4626, cross-chain bridge security, IPFS
Languages	JavaScript, TypeScript, Solidity, Python, Bash
Fullstack	React.js, Next.js, Node.js, Express.js, Hono.js, RESTful APIs, GraphQL, Web3.js, Ethers.js, Zustand, Recharts, Tailwind CSS
AI & LLMs	Claude API, Groq API, Gemini, MCP, Agentic AI Orchestration, Prompt Engineering, Deepseek, NVIDIA
DevOps & Tools	Git, Docker, Foundry, JIRA, Trello, CI/CD, Cloudflare Workers/D1, Cloudflare Pages, Netlify, Wrangler CLI
Databases	PostgreSQL, MongoDB, Cloudflare D1 (serverless SQLite), SQL/NoSQL
Other	Linux, Windows, macOS, DaVinci Resolve, OBS Studio, Google Workspace, Microsoft Office

Independent Security Research

Security Researcher & Bug Bounty Hunter	Independent
2024 to Present	
- Conduct independent security audits across 40+ Web3 protocols (Frax, GMX) and 15+ Web2 targets on platforms like HackenProof and HackerOne. - Discovered and responsibly disclosed high-severity vulnerabilities including a critical Blind Stored XSS leading to PII leakage and an IDOR enabling unauthorized resource manipulation. - Develop comprehensive proof-of-concept exploits using Foundry with mainnet-fork verification for Web3, and custom attack chains for Web2. - Leverage custom automated reconnaissance pipelines (c0bw3b) and AI/LLM-powered agentic tooling for vulnerability scanning, log analysis, and exploit generation. - Produce detailed, triage-ready vulnerability reports with severity classification, root cause analysis, and remediation recommendations.	

Projects & Portfolio

Note: For an exhaustive list of all tools, agents, and applications I have built, please visit my interactive portfolio at llakterian.github.io.

Maziwa Coop: Milk Cooperative Management System

maziwa-coop.pages.dev

Production-deployed full-stack platform serving Kenyan dairy cooperatives, replacing paper-based records with a digital system handling daily milk delivery recording, farmer management, SMS notifications (Africa's Talking), facility credit tracking, and multi-type reporting. Features role-based access (admin/clerk), JWT authentication, auto-generated ticket numbering, real-time dashboard with collection trend charts (Recharts), and CSV export. Designed with a clean SMS provider abstraction layer (strategy pattern). Deployed serverlessly on Cloudflare Workers + D1. Backend: Hono.js on Cloudflare Workers. Frontend: React 19 + Zustand + Vite.

C. Sambu Farm Manager: Full-Stack Farm Management PWA

Live API

Comprehensive PWA for managing a multi-sector Kenyan agribusiness (tea, dairy, avocado, poultry). Features a variable payroll engine supporting piece-rate (KES 9/kg), day-rate (KES 216/day), and prorated salary modes, production logging across 5 sectors, expense tracking, domestic loan management, real-time weather intelligence (Open-Meteo, 14 Kenyan farming regions), and factory-level financial reporting with CSV export. Migrated from local IndexedDB/FastAPI/Docker to serverless Cloudflare Workers + D1. Implements JWT auth, column-whitelist SQL injection defense, Workbox-powered offline caching with "Add to Home Screen" PWA support, and print-optimized report layouts. Tech: React 18, Tailwind CSS, Hono.js, Recharts, Headless UI, vite-plugin-pwa.

c0bw3b Toolkit: Automated Reconnaissance & Vulnerability Scanner

Custom-built automated security scanning pipeline for Web2 bug bounty. Features JavaScript secret extraction, asynchronous port scanning, historical URL collection, and integrated attack chain detection for CORS, IDOR, SQLi, and SSRF.

CVEScan: AI-Powered CVE Vulnerability Scanner

Orchestrates AI agents (Gemini) and tools (Bandit, Semgrep) for real-time CVE monitoring and automated report generation.

Curated Feed: AI Content Curation Engine

Digital autonomy engine integrating Groq API (Llama 3.3 70B) for real-time curation with KV storage.

BotIn: Decentralized AI Agent Network

Decentralized AI agent professional network utilizing ERC-8004 for agentic identities and XMTP messaging.

KinSync: Digital Estate Vault on Base

Next-of-Kin digital estate vault smart contract on Base, automating decentralized IPFS content authorization.

NimbusTrade: Web3 Arbitrage Dashboard

Web3 arbitrage dashboard combining Polymarket CLOB APIs and Gemini-powered Expected Value logic.

PicKut AI: AI Image Editing Suite

Professional image editing suite powered by Gemini 2.5 Flash Image, featuring ERC-8004 agentic Web3 payments.

FinPro: High-Performance Financial Platform

Financial platform integrating Next.js, Supabase, and automated Playwright test suites.

Uplift News: Multi-Language News Platform

Multi-language platform built with React, Cloudflare Workers, D1 database, and Groq AI for content curation.

Professional Experience

Project Manager

SIZLAND Limited

Nov 2025 to Mar 2026

- Orchestrated Agile and Scrum workflows in a Web3 environment, optimizing task allocation and sprint delivery via JIRA and Trello.
- Anticipated and mitigated project risks, conflicts, and cross-team dependencies through proactive strategies.
- Partnered with development and QA teams to rigorously validate deliverables, ensuring technical and functional excellence.
- Directed stand-ups, sprint reviews, and retrospectives; served as central liaison between developers, executives, and external partners.
- Championed comprehensive technical documentation and evolved best-practice SOPs to elevate operational standards.

Indie Game Developer (Charity Project)

Jampack Incubator

Feb 2026

- Developed and launched Mathlantis, an educational web application combining math challenges with puzzle-building mechanics for Games for Love’s mission.
- Honored with the "Most Child Friendly Game" title badge for accessible and engaging design.

Technology Consultant & Developer

Self-Employed

Sep 2023 to Present

- Built and deployed production full-stack applications (Maziwa Coop, Sambu Farm Manager) on Cloudflare’s serverless edge infrastructure with JWT auth, role-based access, and real-world Kenyan market adoption.
- Architected robust data pipelines integrating Meta Lead Ads with CRM tools using Zapier, Cloudflare Workers, and Cloudflare KV with strict deduplication.
- Engineered and audited Solidity smart contracts using static analysis tools (Slither, Mythril); reduced exploit risk surface by 40%.
- Guided early-stage startups on technology stack selection, championing scalable and secure fullstack architectures.
- Created blockchain security educational content on TikTok (@tech_ale).

Director and Manager

Sambu Academy

Aug 2022 to Present

- Directed educator teams delivering high-impact operations and upholding elite service standards.
- Implemented streamlined SOPs that boosted overall productivity by 30%.

Previous Professional History

• Technical Director and Editor KASS Media	Jul 2020 to Apr 2023
• Firm Manager KASS Media (Ainoop Pkeles Studios)	Mar 2019 to Apr 2023
• Manager: Logistics, Building and Construction KASS Media	Feb 2019 to Aug 2022
• Passenger Handling Agent Swiss Port Kenya Ltd	Aug 2011 to Dec 2011
• Public Relations Attaché KEMSA	2011

Certifications & Training

Professional & Technical Certifications	<i>In Progress</i>
• CompTIA Cloud+ (CV0-003) Specialization (Coursera)	
• Full Stack Web3 Development Crash Course (Cyfrin Updraft)	
• Solidity Smart Contract Development (Cyfrin Updraft)	
• Smart Contract Security (Cyfrin Updraft)	
• Cybersecurity Awareness and Innovation (EIT Digital / Coursera)	
• Develop a Company Website with Wix (Coursera Project Network)	
• Leveraging Virtual Assistants for Personal Productivity (Coursera)	
• Learn HTML Course (Course Completion)	
• Digital Forensics Masterclass: Forensic Science DFMC+ (Udemy)	
Security & Defense Training	
• Cybersecurity Awareness (DCSA / CDSE)	
• Establishing an Insider Threat Program (DCSA)	
• Insider Threat Awareness (DCSA)	
• Maximizing Organizational Trust (DCSA)	
Personal Development & Soft Skills	
• Non-Technical Life Skills (Course Completion)	
• Guitar Knowledge Level 1 (Yousician)	
• Great Learning Verification Portal	

Education

CompTIA Cloud+ (CV0-003) Specialization	Coursera	In Progress
B.A. International Relations & Diplomacy with I.T.	Maseno University	2008 to Present
Certificate in HTML Web Language	Star College	2008
Kenya Certificate of Secondary Education	Milimani High School	2006 to 2007