

Beamlak Sintayehu

Cybersecurity Engineer | Autonomous AI & Full-Stack Developer

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THM [Mr.nobody.](https://www.thm.io/mr-nobody) • HTB [#2355243](https://www.hackthebox.com/profile/2355243)

SUMMARY

Cybersecurity-focused software engineer and applied AI systems architect (**backend & systems heavy**) with over 4 years of hands-on experience building offensive/defensive security frameworks, autonomous multi-agent orchestration, computer vision telemetry, and full-stack web applications. Proven ability to deliver 17+ production-grade open-source platforms and security tools—including [All-skills](#) (14,855+ modular agent skills across 251 domains), [Argus](#) (real-time YOLO/OpenCV video analytics), [Cerberus](#) (multi-vector vulnerability auditing), and [Ultrone](#) (autonomous agent runtime). Selected participant in the [INSA 5th National Cyber Talent Challenge](#) (CTC-912-26). Skilled in Python, TypeScript/React 19, C/C++, Go, Rust, Docker, Linux kernel hardening, and CI/CD security automation.

EXPERIENCE & TECHNICAL LEADERSHIP

AI Security & Autonomous Systems Lead, *Open-Source AI Ecosystem (GitHub)*

01/2026 – Present

- Architected [All-skills](#), a Universal Agent Skills OS indexing **14,855+ skills across 251 domains and 15 super-domains** for Claude, Cursor, Codex, Copilot, and Gemini, with cross-OS SHA lockfiles, SkillHub CLI, rootless Docker images, and 202 pytest/CodeQL/Gitleaks CI gates.
- Engineered [Ultrone](#) and [EVOLYX](#), autonomous AI research platforms combining deterministic state-machine execution, sandboxed tool-calling, runtime memory, and gated LoRA/DPO fine-tuning with FastAPI and Vite/React.
- Built [Orion](#) (quantitative financial intelligence & institutional security framework), [Project MIRROR](#) (fault-injection & multi-armed bandit crash simulator for AI agents), and [Project PHANTOM](#) (causal failure minimization for Raft microservices).

Cybersecurity Engineer (Cohort CTC-912-26), *INSA 5th Cyber Talent Summer Camp*

08/2026 – Present

- Selected for the Information Network Security Administration (INSA) 5th National Cyber Talent Challenge on the Ethiopian National Cyber Range (ncrp.et), collaborating on national cyber defense systems.
- Co-engineered [ETHIO-CYBERGUARD](#), an AI-assisted cybersecurity threat detection and automated incident response platform with continuous GitHub Actions CI verification, STRIDE threat modeling, and automated triage.

Computer Vision & Full-Stack Developer, *Independent AI & Civic Tech Projects*

01/2025 – 12/2025

- Developed [Argus](#) (SentinelSight AI), a real-time video analytics platform decoupling stream ingestion from inference via Python AsyncIO queues, OpenCV, PyTorch, and YOLO pipelines with webhook anomaly alerts.
- Built [CivicLens](#) (civic issue reporting with 100% local AI triage), [Plaq OS](#) (fault-tolerant quantum resource optimizer), and [Arena AI Android](#) (standalone Java/Android client with hardened WebView architecture).

Offensive Security Researcher & Tooling Developer, *TryHackMe & HackTheBox Labs*

01/2023 – 12/2024

- Designed [Cerberus](#), an autonomous multi-agent cyber orchestrator and multi-vector vulnerability auditing suite uniting multi-threaded port/service enumeration, CVE correlation, local lab wargames, and JSON/SARIF reporting.
- Authored [fkali](#) Bash playbooks for Kali Linux provisioning and systemd/kernel hardening, implemented C/Python [RC4](#) stream cipher cryptanalysis, and published CTF walkthroughs ([tryhackme-write-ups](#), [Capture-Writeup](#)).

IT Lab Systems Technician & Peer Mentor, *Adama High School (Adama, Ethiopia)*

09/2022 – 06/2024

- Voluntarily diagnosed and repaired critical school computer lab workstation hardware and OS failures ahead of national practical examinations, and led peer-tutoring sessions on programming logic and algorithmic debugging.

TECHNICAL SKILLS

Domain	Technologies, Frameworks & Security Tooling
Cybersecurity & SecOps	Kali Linux, Burp Suite, Nmap, Wireshark, Metasploit, OWASP Top 10, STRIDE Threat Modeling, Packet Dissection, SARIF/CVE Correlation, CodeQL, Gitleaks, Prompt Injection Defense
Programming Languages	Python (AsyncIO, FastAPI, PyTorch, OpenCV), TypeScript, JavaScript, C, C++, C#, Go, Rust, Java (Android), x86 Assembly, Bash / Shell, PowerShell, SQL, PHP, HTML5 / CSS3
AI & Autonomous Agents	Agentic State Machines, Swarm Intelligence, Multi-Agent Orchestration, YOLO Computer Vision, LoRA & DPO Fine-Tuning, Multi-Armed Bandits, MCP & Universal Skill Registries
Web, DevOps & Systems	React 19, Next.js, Vite, Node.js, Express, Flask, Docker (Rootless Images, Compose, Hadolint), Linux Kernel Namespaces & Systemd, Git, GitHub Actions CI/CD, Ruff, Mypy, Pytest

COMPLETE PROJECT & REPOSITORY PORTFOLIO

Project / Repository	Stack & Focus	Architecture & Key Contributions
All-skills	Python, JS, Docker	Universal Agent Skills OS with 14,855+ skills across 251 domains & 15 super-domains, SHA lockfile integrity, SkillHub CLI, and 202-test CI suite.
ETHIO-CYBERGUARD	Python, AI SecOps	AI-assisted cybersecurity threat detection and automated incident response platform built during the INSA 5th Cyber Talent Camp (CTC-912-26).
Argus (SentinelSight)	Python, OpenCV, YOLO	Real-time video analytics platform separating stream ingestion from PyTorch/YOLO inference via async queues with webhook telemetry alerts.
Cerberus	Python, Threat Intel	Autonomous self-evolving multi-agent cyber orchestrator and multi-vector security auditing suite for port/service enumeration and SARIF/CVE output.
Ultrone & EVOLYX	Python, FastAPI, LoRA	Self-evolving swarm intelligence runtime (Ultrone) and continual AI research platform with runtime memory and gated LoRA/DPO fine-tuning (EVOLYX).
Orion & Plaq OS	Python, Quant & Quantum	Autonomous financial intelligence and institutional security brain (Orion); fault-tolerant quantum resource optimizer and execution planner (Plaq OS).
MIRROR & PHANTOM	Python, Distributed Sys	Multi-armed bandit fault-injection simulator for AI agents (MIRROR) and causal failure-reconstruction engine for Raft microservices (PHANTOM).
CivicLens	Python, Local AI	Civic intelligence platform for Ethiopian municipal issue reporting with 100% local AI triage and transparent resolution tracking.
arena-ai-android	Java, Android, Express	Standalone Android client for Arena (arena.ai) featuring hardened WebView controls and automated CI dependency auditing.
daily-git-digest & Portfolio	Python, React 19, TS	Autonomous daily Git commit auditor and release-notes pipeline (daily-git-digest); dark-mode React 19/TypeScript interactive portfolio.
fkali , rc4 & CTF Write-ups	Bash, C, Python, Crypto	Kali Linux automation playbooks (fkali), C/Python RC4 stream cipher CLI (rc4), and offensive CTF walkthroughs (THM & Capture-Writeup).

EDUCATION, CERTIFICATIONS & CYBER RANGES

- **Addis Ababa University (EiABC — College of Technology and Built Environment):** B.Sc. Undergraduate Studies (ID: UGR/5194/17), Addis Ababa, Ethiopia (2024 – Present).
- **Adama High School:** Ethiopian Secondary School Leaving Certificate (ESSLCE: **492/600** — Chemistry 92, Mathematics 91, Biology 88, Physics 77, SAT 77), Adama, Ethiopia (Graduated 2024).
- **INSA 5th National Cyber Talent Summer Camp & TCM Security Academy:** National Cyber Range Practitioner (Cohort CTC-912-26); pursuing PNPT, PAPA (Practical AI Pentest Associate), PJPT, and PSAA tracks; Active on [TryHackMe \(Mr.nobody.\)](#) & [HackTheBox \(#2355243\)](#).