Hailemichael Solomon

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Github | *Portfolio* | *LinkedIn*

EDUCATION

B.Sc., Information Technology — Hawassa University2024 - Present
Relevant Courses: Advanced Programming, Operating Systems, Computer Organization and Architecture, Data Structures and Algorithms, Data Communication and Computer Networks.

PROFESSIONAL EXPERIENCE

Penetration Testing Intern, CCTech*Jun 2026 - Present*

- Working within a 3-member penetration testing team under the InfoSec division, building hands-on labs to develop and sharpen practical testing skills.
- Studying and applying industry-standard methodologies, including PTES (Penetration Testing Execution Standard) and NIST frameworks, to structure engagement workflows.

Offensive Security Intern, INSA*Jun 2026 - Present*

- Conducting hands-on offensive security testing and research as part of INSA's security team.
- Studying toward the Certified Ethical Hacker (CEH) certification to strengthen offensive security methodology and technique.

Cyber Domain Lead, Peak Craft*Oct 2025 - Present*

- Led a 12+ member cybersecurity domain team, organizing technical sessions, 4 labs, and CTF practice.
- Coordinated members working on security tools and guided project development and testing.
- Helped structure learning paths around Linux, network analysis, and vulnerability testing.

Cybersecurity Graduate, INSA Summer Camp*Jul 2025 - Nov 2025*

- Developed an IoT-aware IDS by working in a team combining host-based and network-based monitoring; the outcome was detection of 70% of simulated network intrusion attempts and 30% of suspicious host activities.
- Implemented malware detection by writing 20+ detection rules and integrating email notification systems, resulting in real-time alerts for over 80% of simulated malware behaviors.

PROJECTS

BETVIEW (Real Estate Startup Platform)

- Independently built the website for BETVIEW using React and Node.js, by developing every feature solo and integrating 2 interactive 360° virtual property tours, and the outcome was a functional demo platform for showcasing real estate listings.

SQLI Vulnerabilities Scanner (Python)

- Developed a Python-based SQL injection scanner by implementing 20+ automated payload tests and response pattern analysis; detected SQL injection vulnerabilities across 10+ tested input endpoints.

Network Intrusion Detection System (NIDS)

- Designed and built an IoT-aware intrusion detection system by analyzing 700+ network packets including MQTT traffic, detecting suspicious behavior in 2% of IoT traffic.

Python Speech Assistant

- Developed a voice-controlled assistant using Python for executing system commands and automating basic tasks.

WealthWise Books

- Built a full-stack web application for book management, implementing 10+ database-connected features (inventory, user actions); the system manages 100+ book records and user interactions.

CERTIFICATIONS

- INSA 4th Batch Cybersecurity Summer Camp Graduate
- CompTIA Security+ (SY0-701) Coursework — Threats, Vulnerabilities, and Mitigations; Security Architecture; Security Operations
- TryHackMe – Pre Security (New) Path
- Network Security Course – Udemy
- Intro to Cyber Security – SkillUp
- Certified Ethical Hacker (CEH) — In Progress

ACHIEVEMENTS

3rd Place, Cursor AI Hackathon (Ethiopia's largest hackathon)*Jul 2026*

- Built Skill-Connect Ethiopia, an AI-powered workforce infrastructure platform designed to prepare Ethiopian youth for the AI-driven job market, as part of a team; placed 3rd nationally.

SKILLS

Technical: Linux, C++, PHP, Java, Networking, Nmap, Burp Suite, Nessus, Metasploit, Wireshark, OSINT Tools, PTES, NIST Frameworks
Soft Skills: Problem-solving, quick learner, disciplined self-study

LANGUAGES

Amharic (C2), English (C1), Arabic (A2)

REFERENCES

biniyam@ethioware.org, President, PCIC