

SALAHADIN SADIK ALI

Security-Focused Full-Stack Developer | Ethical Hacker | Software Engineering Student

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PROFESSIONAL SUMMARY

Security-focused software engineering student at Adama Science and Technology University with hands-on experience in full-stack development, ethical hacking, and penetration testing. Builds and delivers production web and mobile applications for real clients using React, FastAPI, PostgreSQL, and Flutter. Active CTF competitor across HackTheBox, TryHackMe, CTFzone, PicoCTF, and PwnBox, with practical skills in web exploitation, binary exploitation, and OSINT. Member of CSEC (Cybersecurity Division) at ASTU, with a long-term goal of contributing to national cybersecurity infrastructure. Passionate about building systems that are both functional and secure from the ground up.

CORE COMPETENCIES

Full-Stack Development • Penetration Testing & Ethical Hacking • CTF Competition • REST API Design • Mobile Development (Flutter) • Secure Coding (OWASP) • Web Exploitation • Binary Exploitation • SQL Injection & XSS • Vulnerability Assessment • Agile Development

TECHNICAL SKILLS

Languages: Python, JavaScript (ES6+), Dart, PHP, SQL, HTML5, CSS3, Solidity (exposure)

Frontend: React, Vite, Tailwind CSS, Flutter, Riverpod, Sanity CMS

Backend: FastAPI, Node.js, Dart Frog, REST API design, JWT auth, Prisma ORM

Databases: PostgreSQL, MongoDB, SQLite, Oracle, SQL Server

Security & CTF: Burp Suite, SQLMap, Kali Linux, HackTheBox, TryHackMe, CTFzone, PicoCTF, PwnBox, LFI/Path Traversal, IDOR, WAF Bypass, OWASP Top 10, Penetration Testing

Tools & Practices: Git & GitHub, Linux (Kali, Ubuntu), Docker (basics), Render, Vercel, OCR (Tesseract), Telegram Bot API

PROFESSIONAL EXPERIENCE

Freelance Full-Stack Developer — Self-Employed, Remote 2024 – Present

- Delivered production web applications for real clients including MFMGC (Miraj Abubakar General Contractor) and IBSA (electrical company), covering full project lifecycle from requirements to deployment.
- Built MFMGC company website using React, Vite, FastAPI, and PostgreSQL, deployed on Render and Vercel with SPA routing, CORS configuration, and environment variable management.
- Built IBSA company website using React, Vite, Tailwind CSS, and Sanity CMS, resolving peer dependency conflicts and configuring production deployment pipelines.
- Managed client communication, technical documentation, and iterative delivery across both projects.

Penetration Tester (Internal Audit) — COEC Platform, Adama, Ethiopia 2024

- Conducted authorized internal security review of the COEC web platform (Node.js/Prisma backend), identifying five critical vulnerabilities including an unauthenticated /api/staff endpoint exposing PII.
- Identified JWT implementation flaws: embedded permissions with no expiry claims, enabling privilege escalation and token replay attacks.
- Produced a formal penetration test report documenting findings, CVSS severity ratings, and remediation recommendations.

Cybersecurity Division Member — CSEC Club — ASTU, Adama, Ethiopia 2023 – Present

- Participated in workshops and projects focused on developing and testing secure systems.
- Engaged in CTF competitions across HackTheBox (University CTF / Yekolo Temari), CTFzone, PicoCTF, PwnBox, and TryHackMe covering web exploitation, binary exploitation, and forensics.

- Practiced web attack techniques including LFI with double URL encoding, SQL injection, IDOR enumeration, and WAF bypass methods.
- Performed binary exploitation including checksec analysis and shellcode injection on 32-bit binaries with no stack canary or PIE.

FEATURED PROJECT

DubeNote — Offline-First Credit Tracking App — *Stack: Flutter, Dart Frog, MongoDB, SQLite, Riverpod*

- Built and shipped a production mobile app for informal shop owners to track customer credit and partial payments offline-first with full sync.
- Implemented Telegram bot notifications for payment alerts, JWT authentication, multi-language support (Amharic, Afan Oromo, English), and partial payment tracking.
- Released v1.0.1 via GitHub with a custom Material 3 design system (Electric Blue #1010A0), six design tokens, and six screen frames.
- Architected the backend using Dart Frog with MongoDB, handling auth, sync logic, and bot integration in a clean service layer.

OTHER PROJECTS

Home Service Marketplace Platform (In Progress) — *Stack: FastAPI, PostgreSQL, React, Tesseract OCR*

- Building a microkernel-architecture backend connecting consumers with service providers, with isolated plugins communicating via an event bus.
- Implemented production OCR using Tesseract for Ethiopian ID verification with custom format support.
- Designing separate consumer and provider plugin systems with role-based access control and event-driven communication.

MFMG Company Website — *Stack: React, Vite, FastAPI, PostgreSQL*

- Full production website for a general contractor, deployed on Render (backend) and Vercel (frontend) with environment-baked Vite config and CORS-hardened API.

IBSA Company Website — *Stack: React, Vite, Tailwind CSS, Sanity CMS*

- Production website for an electrical company using headless CMS architecture, with content managed via Sanity and frontend deployed on Vercel.

COEC Platform Security Audit — *Stack: Burp Suite, Node.js, Prisma, JWT Analysis*

- Formal penetration test identifying five vulnerabilities including unauthenticated PII exposure and JWT privilege escalation. Delivered professional pentest report.

EDUCATION

B.Sc. in Software Engineering — Adama Science and Technology University (ASTU)*Expected 04/2027*

GPA: 3.67 • Focus: Full-Stack Development, Cybersecurity, Software Architecture

LANGUAGES

English (Professional) • Amharic (Native) • Afan Oromo (Native) • Arabic (Conversational) • Somali (Basic)