

Hussein Taha

Software Developer & Cybersecurity Practitioner

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PROFILE

Security-minded developer who thinks in systems, not just code. My instinct with any problem is to figure out how to automate it, secure it, or make it 10x faster. I've been using AI tools (Claude, Gemini, Cursor) as core daily development tools — not experimenting — for production work across web, mobile, desktop, and security tooling. I come from a cybersecurity and infrastructure background, which means I don't just build things, I think about how they break. I learn fast, I ship fast, and I'm most useful when there's a messy problem that needs a working solution by tomorrow.

TECHNICAL SKILLS

AI & Automation: Claude, Gemini, Cursor, prompt engineering, multi-agent workflows, Telegram bots, AI-assisted development, token optimization

Languages: Python, PHP 8, JavaScript, Node.js, Bash, PowerShell, React Native, HTML/CSS

Security: Nmap, Metasploit, Burp Suite, Wireshark, C2 development, OWASP, AD attacks, Fail2Ban, Linux hardening

Infrastructure: AWS (EC2), PostgreSQL, MySQL, Docker, Git, Linux admin, Windows Server/AD, CCNA networking, systemd, Nginx, Cloudflare

PROJECTS

DevOps Pilot — Telegram-Controlled AI Development Framework

Creator & Sole Developer

Python, Telegram Bot API, AI IDE orchestration, MySQL, SSH | github.com/HusseinTahaDEV/devops-pilot

- Built a Telegram bot that orchestrates AI coding agents: one command generates, tests, and deploys a full-stack project to staging — supports 8 templates (PHP, Laravel, Node.js, Next.js, Expo, Flutter, REST API, Electron) with auto DB setup and automated bug testing
- Used daily as personal tooling — typical workflow: idea → Telegram command → working deployed app in under 30 minutes

Marrow — Red Team Command & Control Framework

Creator & Developer

PHP 8, MySQL, PowerShell | [c2.hussein.top \(Live\)](https://c2.hussein.top) | [GitHub Repo](#)

- Full C2 framework with web dashboard for target management, modular task execution (Python/PowerShell/CMD), real-time heartbeat monitoring, and activity feed with task results
- PowerShell agent with HWID fingerprinting, integrity-level detection, and periodic check-in — custom module architecture for extensible post-exploitation

Edu Assess — Anti-Cheating Digital Exam Platform

Creator & Lead Developer

PHP 8, PostgreSQL, Electron, React Native, REST API, JWT/TOTP, Gemini AI | [edu-assess.com \(Production\)](https://edu-assess.com)

- Tri-platform exam security system solving academic dishonesty: Electron lockdown browser kills Explorer.exe, blocks 30+ shortcuts, detects VMs, with AI face-detection proctoring. Multi-tenant SaaS with TOTP 2FA, Gemini-powered question generation, offline sync, and 4-tier subscription engine — serving real institutions across web, desktop (Electron), and mobile (React Native)

Pentit — AI-Powered Offensive Reconnaissance Framework

Creator & Developer

Python, Nmap integration, LLM analysis layer, Markdown reporting | github.com/HusseinTahaDEV/pentit-v2

- Offensive recon framework with OODA-loop workflow engine: automated scanning, WHOIS, subdomain enumeration, and cryptographic utilities. LLM layer parses Nmap XML output, identifies CVEs, and recommends specific Metasploit modules with reasoning

Tadwerak — Recycling & E-Commerce Mobile Platform

Sole Developer | Shipped in <24hrs

React Native, Firebase, 30+ screens | github.com/HusseinTahaDEV/tadwerak-app

- Complete mobile app with dual-role system (user + admin), e-commerce marketplace with product CRUD, full order workflow (pending→confirmed→shipped→delivered), wallet/withdrawal system with InstaPay/mobile wallet integration, and push notifications — all built from scratch in under 24 hours

AWS Infrastructure & Edu Nexus University Platform

Infrastructure & Co-Developer

AWS EC2, Nginx, Bash, systemd, Fail2Ban, Telegram API | [edu-nexus.net \(Production\)](https://edu-nexus.net)

- Manage a production AWS t3.micro hosting multiple services (C2 dashboard, Edu Assess, Edu Nexus). Built custom security monitoring: systemd boot/shutdown Telegram alerts, Fail2Ban IP-ban notifications, SSH login detection via PAM hooks. Co-developed Edu Nexus — a university management platform for Egyptian institutions (student data, courses, grading)

EDUCATION & TRAINING

Ain Shams University — B.Sc. Specific Education (Technology)

2023 – 2027

Current GPA: 3.2 / 4.0

IT Gate Academy — Cybersecurity & IT Infrastructure Diploma

2025 – Present

Completed modules: Linux Administration, Python Programming, PHP Development, CCNA Networking, MCSA 2019 (Windows Server/AD). Current: Mobile Pentesting.

- CEH v12** (Certified Ethical Hacker) — Advanced modules completed
- OSCP** (Offensive Security Certified Professional) — Active lab phase
- eWPT** (Web Application Penetration Testing) — In preparation