FATA FATIKHUL KARIM

Application Security & Backend Automation Engineer (Python 3 / Node.js)

Central Java, Indonesia (Open to Remote / Hybrid / Relocation) | fatafatikhul@gmail.com
Portfolio: fatakarim.github.io | LinkedIn: linkedin.com/in/fata-fatikhul-karim | GitHub: github.com/fatakarim

PROFESSIONAL SUMMARY

Application Security and Backend Automation Engineer specializing in Python 3, Node.js, and OWASP Top 10 auditing. Experienced in building sandboxed Model Context Protocol (MCP) bridges, zero-dependency Python security auditing CLIs backed by automated unit tests, and executing authorized web application security assessments with actionable Root-Cause Analysis (RCA), server-side Zod schema patches, and regression unit test suites.

CORE TECHNICAL COMPETENCIES

- Application Security (OWASP Top 10): Broken Access Control (IDOR), Business-Logic & Numeric Boundary Auditing, HTTP Security Headers (CSP, HSTS, Helmet), CORS & Cookie Flags, Passive DNS/OSINT (SPF/DMARC), Burp Suite, Nuclei
- Python 3 (Security & CLI Tooling): Standard-library HTTP/SSL probing (urllib, ssl, socket), multi-threaded concurrency (concurrent.futures), Passive OSINT API aggregation, Automated Unit Testing (unittest)
- Node.js & JavaScript (Backend & Protocol Servers): JSON-RPC 2.0 over stdio, Express.js REST APIs, Parameterized Subprocess Execution (child_process.execFile), Server-Side Schema Validation (Zod), Automated Testing (node:test, Jest)
- Automation Protocols & Linux: Model Context Protocol (MCP), Android ADB (XML Accessibility Tree), Chrome CDP, Git

SECURITY RESEARCH & ENGINEERING EXPERIENCE

Application Security Researcher (Coordinated Disclosure) | HackerOne (@zeonmaltius) [Oct 2026 - Present]

- Authorized Agricultural Ration Solver API Assessment (Reported Oct 9, 2026; Deployed & Verified by Oct 14, 2026): Identified and responsibly disclosed 8 findings (2 High, 4 Medium, 1 Low, 1 Informational) in an Express.js livestock ration solver, including unauthenticated GET /api/history exposure (38 user records, CVSS 7.5 High), missing numeric bounds on POST /api/feeds (CVSS 7.5 High), client solver freeze on BB <= 0 (CVSS 6.5 Medium), and wildcard CORS (*).
- Published RCA with explicit maintainer approval (Oct 15, 2026), Zod validation schemas, and Jest regression tests.

Open-Source Security & Automation Developer | GitHub (@fatakarim) [Jun 2026 - Present]

- Maintaining 4 public repositories across Python 3 and Node.js: authored 510+ lines of zero-dependency Python 3 security auditing code verified by 5 automated unittest cases and 44 JSON-RPC stdio MCP automation tools.

ENGINEERING CASE STUDIES & PROJECTS

Fata Recon & AppSec Audit Suite v3.0 (Python 3) | github.com/fatakarim/fata-termux-toolkit

- Zero-dependency Python 3 CLI backed by 5 unittest regression tests: audits HTTP Security Headers (CSP, HSTS, XFO), inspects CORS reflection & cookie flags, aggregates passive subdomain OSINT across AlienVault OTX, HackerTarget, and crt.sh, and performs authorized boundary fuzzing (--confirm-authorized) with Markdown remediation reports.

Sandboxed Model Context Protocol (MCP) Device & Browser Bridge (Node.js) | github.com/fatakarim/android-browser-mcp

- Node.js JSON-RPC stdio MCP server exposing 44 structured automation tools for physical Android hardware (via ADB XML Accessibility Tree parsing) and headless Chromium (via Chrome CDP) with execFile and PACKAGE_REGEX guardrails.

JARVIS - Personal WhatsApp AI Triage Prototype (Node.js) | github.com/fatakarim/jarvis-whatsapp-ai

- Personal Baileys WebSocket + Gemini 2.5 Flash prototype (2,000ms typing cadence, 0 group LLM calls via @g.us filter).

EDUCATION & AVAILABILITY

Universitas Jenderal Soedirman (UNSOED) - D3 in Animal Husbandry (Budidaya Ternak) [Expected: 2027]

- Availability: Flexible schedule for Full-Time or Paid Internship; open to Remote, Hybrid, or Relocation (Java/Jakarta).
- Combined quantitative agricultural nutrition modeling with software engineering & AppSec to audit solver APIs.