Husain Hakim

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Professional Summary

Cybersecurity-focused developer pursuing **ethical hacking**, with hands-on work in **web application security, network reconnaissance, and security tooling**. Actively practices vulnerability discovery through **PortSwigger Web Security Academy**, backed by professional backend engineering experience.

Technical Skills

Security: Web Application Security, Vulnerability Discovery, Security Testing, Secret Scanning, Digital Forensics
Networking: TCP/IP, DNS, HTTP/HTTPS, ARP, Subnetting, CIDR, Network Reconnaissance, Port Scanning
Programming: Python, JavaScript, C++
Security Tooling: Burp Suite, Git, Linux, CLI Tooling, Binary Analysis, Hex Inspection
Backend: Node.js, Express.js, FastAPI, Django, REST APIs
Databases & Testing: MongoDB, SQL, Postman, JMeter, Selenium, Cypress

Experience

Backend Developer Sept 2025 – July 2026
LetsUpgrade Edtech Pvt Ltd

- Migrated **30+** MongoDB Atlas Triggers to Node.js event-driven services, **eliminating separate Atlas App Services execution costs and leveraging existing backend infrastructure** for improved cost efficiency, scalability, and maintainability.
- Designed and developed **150+ REST APIs** for production backend services, working with large-scale MongoDB data and integrating features across the platform.

Projects

Intrusion Detection System (IDS) |github.com/husainhakim/IntrusionDetectionSystem

- Built a network-based **intrusion detection system** that monitors network traffic, analyzes packets, and identifies suspicious activity using configurable detection rules.
- Implemented **real-time alerting and event logging** for detected threats, providing visibility into source/destination IPs, ports, protocols, and attack patterns.

File Signature Identifier | github.com/husainhakim/FileTypeIdentifier

- Built a **digital forensics tool** that analyzes raw binary file headers against **30+ known file signatures** to determine true file types and detect **extension spoofing**.
- Designed a **hex-dump viewer** rendering offsets, hex bytes, and ASCII for the first **256 bytes** of a file inside a custom React-based forensics interface.

RepoChecker | github.com/husainhakim/RepoChecker

- Built a repository hygiene and **secret-scanning CLI** that audits Git state and detects hardcoded **API keys, passwords, tokens, AWS keys, and private key material**.
- Added Git-tracking-aware detection for sensitive files including `.env`, `.pem`, `.key`, credentials, and SSH keys, alongside `.gitignore` **gap analysis**.

Education

Bachelor of Technology in Computer Science Aug. 2023 – May. 2027
ITM Skills University

Additional

Web Security: PortSwigger Web Security Academy, Web Application Security, Vulnerability Discovery
Competitive Programming: 180+ LeetCode Problems Solved, HackerRank 5⋆
Certifications: MongoDB University, Advanced Selenium (LambdaTest), Java Programming (Great Learning)
Leadership: Organized three hackathons with prize pools exceeding **Rs. 6,85,000**; Mentor, ITM Buildathon 3.0
Endurance : Wings for Life marathon medal holder(Organized by RedBull)