WAQASS AHMED

Cybersecurity Analyst / Automation Engineer

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Professional Profile

Automation Engineer and Cybersecurity Analyst specializing in enterprise-grade system integration and scalable workflow architecture. Proven track record of delivering complex automation pipelines for 75+ unique clients while maintaining a strict 100% Job Success Score. Complements this high-level engineering expertise with a strong foundation in offensive security, actively engaging in advanced Wi-Fi sensing R&D and holding certifications across red teaming, network penetration testing, and cloud infrastructure.

Professional Experience

Top-Rated Automation Engineer *January 2023 – Present*
Upwork (Freelance) *Remote*

- Partnered with 75–100 unique clients globally, maintaining a strict 100% Job Success Score and Top-Rated contractor status.
- Architected and deployed end-to-end workflow automation solutions using n8n, Zapier, and Make, successfully integrating complex SaaS platforms, REST APIs, and database layers.
- Authored custom Python scripts for clients in e-commerce, finance, and marketing, reducing manual data processing overhead by 60–80%.
- Engineered complex multi-step orchestration pipelines handling data transformation, conditional routing, and automated error recovery.

n8n | Zapier | Make | Python | API Integration | Workflow Automation

Marketing Automation & Cybersecurity Communications *April 2025 – August 2025*
Cybersecurity Insiders *Remote*

- Optimised B2B marketing automation workflows targeting security professionals, directly improving campaign deliverability and reporting accuracy.
- Integrated diverse automation toolsets to consolidate marketing operations, reducing manual oversight in campaign tracking and lead nurturing.
- Collaborated with technical teams to align external communications with current threat intelligence.

Marketing Automation | Cybersecurity Communications | Campaign Strategy

Cyber Security (Red Team) Intern *June 2024 – September 2024*
ITSOLERA PVT LTD *Remote*

- Executed full-cycle red team operations encompassing passive/active OSINT reconnaissance, network enumeration, and controlled exploitation.
- Engineered custom Python tooling to automate repetitive testing phases (port scanning, output parsing), accelerating operational throughput.
- Mapped adversarial attack simulation findings to the MITRE ATT&CK framework to produce actionable, client-ready remediation reports.

Red Team | Penetration Testing | OSINT | Metasploit | Python Scripting

Education

Bachelor of Science in Cyber Security *September 2022 – June 2026*
Air University, Islamabad *Islamabad, Pakistan*

- **CGPA:** 3.22 / 4.00 | Department: National Centre for Cyber Security (NCSA)
- Coursework: Penetration Testing, Applied Cryptography, Web App Security, Digital Forensics, Reverse Engineering.

Notable Projects & Research

WISPR — Wi-Fi-Based Intrusion Sensing & Presence Recognition *2022 – 2026*
Final Year Project, Air University (NCSA) · Completed *Islamabad, Pakistan*

- **Overview:** R&D embedded system demonstrating critical Wi-Fi physical-layer privacy vulnerabilities by tracking human movement through walls using sub-$40 commodity hardware.
- **Technical Architecture:** Deployed two spatially separated ESP32 sensor nodes streaming raw Channel State Information (CSI) via UDP to a Python-based processing workstation.
- **Signal Processing Pipeline:** Implemented EMA smoothing, dynamic rolling percentile normalisation, dual-threshold hysteresis detection, and a proprietary four-strategy direction inference algorithm.
- **Security Impact:** Demonstrated that WPA2/WPA3 encryption provides zero protection against physical-layer sensing threats.
- **Performance Metrics:** Achieved 94.1% presence detection accuracy and 86.7–91.2% direction inference accuracy.

ESP32 | Python | NumPy | Signal Processing | Privacy Research

Multi-Platform Ads Aggregation & Client Dashboard *Completed*
Client Automation Project *Remote*

- **Overview:** Engineered an automated data aggregation pipeline via n8n to centralize metrics from multiple high-volume advertising platforms.
- **Technical Architecture:** Integrated the Amazon Ads API, Google Ads API, Meta Ads API, and Amazon SP-API into a unified backend.
- **Authentication System:** Implemented a secure, multi-tenant OAuth flow, enabling seamless third-party client authentication and automated credential lifecycle management.
- **Data Visualization:** Pushed normalized cross-platform data streams into a custom Retool dashboard, providing clients with a unified overview of their ad spend and ROI.

n8n | Retool | OAuth 2.0 | Amazon SP-API | Google Ads API | Meta Ads API

Automated B2B Lead Generation & Violation Tracking *Completed*
Client Automation Project *Remote*

- **Overview:** Developed a targeted data extraction pipeline designed to continuously monitor municipal building violation records and generate actionable B2B leads.
- **Data Ingestion & Enrichment:** Orchestrated workflows in n8n to ingest JSON/CSV data from US Government databases (Data.gov), cross-referencing violation data to extract property management, director, and owner contact information.
- **Geospatial Verification:** Integrated the Google Maps API for automated location verification and data cleansing to ensure outreach accuracy.

n8n | Data.gov APIs | Google Maps API | Data Enrichment | Lead Generation

Advanced Shopify Operations & Logistics Automation *Completed*
Client Automation Project *Remote*

- **Overview:** Architected a custom e-commerce automation suite to extend native Shopify capabilities, handling complex post-purchase workflows and internal analytics.
- **Logistics & KPI Tracking:** Built an automated logistics tracking system to monitor, log, and calculate the average duration of each fulfillment phase—from warehouse packaging to final carrier delivery.
- **Customer Retention:** Automated dynamic refund processing logic and engineered highly customized abandoned cart recovery sequences via targeted outreach.

Shopify API | Workflow Automation | Logistics Analytics | E-commerce | n8n

Certifications & Courses

- eJPTv2 – INE Security
- Certified Red Team Analyst (CRTA) – CyberWarFare Labs
- Certified Web Red Team Analyst (Web-RTA) – CyberWarFare Labs
- Certified Multi-Cloud Red Team Analyst (MC-RTA) – CyberWarFare Labs
- Certified Active Directory Red Team Specialist (AD-RTS) – CyberWarFare Labs
- Certified Network PenTester (CNPEN) – The SECOPS Group
- Certified Network Security Practitioner (CNSP) – The SECOPS Group
- Certified in Cybersecurity (CC) – ISC
- Google Cybersecurity Professional Certificate – Google
- Google IT Support Professional Certificate – Google
- Generative AI: Prompt Engineering Basics – IBM
- Programming with JavaScript – Meta
- Introduction to Front-End Development – Meta

Technical Skills

- **Offensive Security & Analysis:** Penetration Testing, Red Teaming, OSINT, Vulnerability Assessment, Adversary Simulation, Digital Forensics, Reverse Engineering
- **Security Tooling:** Metasploit, Burp Suite, Nmap, Wireshark, SQLmap, ffuf, Autopsy, Hashcat, theHarvester
- **Programming & Web:** Python (primary), JavaScript, C/C++, SQL, Bash, HTML/CSS
- **Automation & APIs:** n8n, Zapier, Make, Retool, Klaviyo, OAuth 2.0, REST APIs, Discord & Telegram Bot Development
- **Infrastructure & DevOps:** Git/GitHub, SSH, Hostinger, Local Hosting, Linux Server Management
- **Embedded & Signal:** ESP32 (ESP-IDF), CSI/RSSI analysis, NumPy, Matplotlib

Languages

- **English:** Professional Working Proficiency (All academic and professional communications)
- **Urdu:** Native Speaker