

# JAKUB SKRZYNECKI

Junior Cybersecurity Analyst | SOC Trainee | Blue Team

Rzeszów, Poland

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## PROFESSIONAL PROFILE

Ambitious Master's student in Cybersecurity with a strong foundation in network defense, web application security, and cloud technologies. Practical experience gained through academic projects and extensive lab simulations (TryHackMe, Home Lab). Proficient in vulnerability assessment (OWASP ZAP, OpenVAS), IAM implementation (Authentik, Azure AD), and incident response basics. Passionate about Blue Teaming and eager to contribute to a SOC or Security Engineering team.

## PROFESSIONAL EXPERIENCE

### IT/Network Intern

July 2023 – Aug 2023

ELTEL NETWORKS ENERGETYKA S.A.

Wielka, Poland

- Network Security Support:** Assisted in the secure configuration of network infrastructure (routers, switches, APs), ensuring compliance with internal security policies.
- Asset Management:** Conducted comprehensive inventory and enumeration of IT assets to support risk assessment and vulnerability management processes.
- Infrastructure Reliability:** Verified UPS systems and emergency power solutions to guarantee business continuity during power outages.
- Technical Support:** Resolved hardware and software issues for end-users, maintaining high availability of workstations and VoIP systems.

## KEY PROJECTS

### Identity & Access Management Implementation

Academic Project

Authentik, Microsoft Azure, Docker

- SSO Deployment:** Deployed Authentik as an Identity Provider (IdP) in Azure, enabling Single Sign-On (SSO) for multiple applications via **OIDC** and **SAML 2.0**.
- Integration:** Integrated with Active Directory (LDAP) to centralize user management for a simulated organization (3 groups, 18 users).
- Security Hardening:** Implemented MFA and strict access policies to prevent unauthorized access.

### Web Application Security Audit (PlantCare)

Academic Project

OWASP ZAP, Burp Suite, Python

- Vulnerability Assessment:** Performed a comprehensive security audit based on OWASP Top 10, identifying critical vulnerabilities including **Unrestricted File Upload** and XSS.
- Automated Scanning:** Utilized OWASP ZAP for automated scanning and GitHub Dependabot for software composition analysis (SCA).
- Remediation:** Provided detailed remediation reports and fixed identified CVEs in the application code.

### Biometric Keystroke Dynamics Analysis

Research Project

Python, Machine Learning, Scikit-learn

- Behavioral Authentication:** Developed a machine learning model to authenticate users based on typing patterns (flight time, dwell time).
- Anomaly Detection:** Achieved **AUC ~0.81** in distinguishing legitimate users from impostors using Random Forest classifiers.
- Security Application:** Demonstrated the viability of behavioral biometrics as a continuous authentication layer.

### Network Attack & Defense Simulation

Home Lab

Bettercap, Wireshark, Snort, ffuf

- **Traffic Analysis:** Simulated MitM attacks (ARP Spoofing, DNS Spoofing) to understand attack vectors and detection signatures.
- **Web Fuzzing:** Conducted extensive directory and parameter fuzzing using **ffuf** to discover hidden endpoints and sensitive files.
- **Defense:** Configured IDS rules (Snort) to detect and alert on suspicious network patterns.

## TECHNICAL SKILLS

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**Security Operations:** SIEM (ELK Stack), Vulnerability Management (OpenVAS, Nessus), IDS/IPS (Snort), Honeypots (T-Pot).

**Web Security:** OWASP Top 10, Burp Suite, OWASP ZAP, Security Headers, WAF concepts, File Upload Security.

**Networking:** TCP/IP, OSI Model, Wireshark, Nmap, VPN, DNS, DHCP, Routing (BGP basics).

**Cloud & IAM:** Microsoft Azure, Active Directory, Authentik, OIDC, SAML, Docker, Linux (Kali, Ubuntu).

**Programming:** Python (Scripting, Automation), SQL, Bash, JavaScript (Basic).

## LANGUAGES

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- **English:** C1 (Advanced) – Professional working proficiency
- **Polish:** Native

## EDUCATION

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**M.Sc. in Computer Science (Cybersecurity)**

Rzeszów University of Technology

*2025 – Present*

Thesis: Advanced Cloud Security Architectures

**B.Eng. in Electronics and Telecommunications**

Rzeszów University of Technology

*2019 – 2025*

Specialization: Telecommunications Systems

## CERTIFICATIONS & TRAINING

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- **CompTIA Security+** (SY0-701) – *In Progress/Completed*
- **Google Cloud Digital Leader** – Google Cloud Skills Boost
- **TryHackMe Paths:** Pre-Security, Web Fundamentals, Jr. Penetration Tester, SOC Level 1
- **Network Security** – Course Completion Certificate