Yusuf Furkan Demirci – Offensive Security & Software Engineer

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Education

Istanbul Aydin University

B.S, Software Engineering 09.2021-08.2025

Relevant Coursework: [Data Structures & Algorithms, Operating Systems, Network Security, Information Security, Malware Analysis (self-studied), Penetration Testing (HTB, THM), Project Management, Requirements Engineering]

Istanbul Arel University

A.A.S Computer Programming 09.2019-09.2021

Experience

Datassist Istanbul, Beyoglu

Software Development 07.2025-08.2025

- Developed microservice-based backend with Java 17 & Spring Boot.
- Implemented JWT authentication and access control.
- Designed secure API Gateway routing using Spring Cloud Gateway.
- Performed API security testing with Postman & Swagger.
- Utilized PostgreSQL with separate isolated databases per service.
- Followed secure coding practices (input validation, error sanitization).
- Designed and implemented secure API Gateway routing using Spring Cloud Gateway, focusing on traffic isolation and secure tunneling.
- Integrated JWT-based authentication and complex access control mechanisms to ensure zero-trust principles at the application level.

Zenatives Istanbul, Avcilar

IT Systems & Security 10.2021 – 12.2024

- Maintained network security, access control and backup systems.
- Performed security monitoring, user access audits and log checks.
- Conducted regular security monitoring, user access audits, and system log checks to identify potential anomalies—aligning with SIEM-centric workflows.
- Managed corporate network security, implementing granular access control lists (ACLs) and ensuring secure workstation provisioning.
- Performed endpoint hardening and managed security patches for corporate infrastructure to mitigate vulnerabilities.
- Managed large-scale Excel & internal data systems securely.

Memteks Istanbul, Avcilar

It Technician Intern 08.2021– 10.2021

- Installed and configured workstations, networks and security tools.
- Helped optimize small business network performance and privacy controls
- Provided user training for secure system usage.

Certificates and Achievements

- Google Cybersecurity (2025) – Coursera.
- Akbank Cyber Security Analyst (2023) (Cisco Cyberops Analyst) – Akbank.
- Google Project Management (2025) – Coursera.
- Google Artificial Intelligence and Technology Academia (2024) – Google.
- Aspire Leaders (2024) – Harvard.

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Skills & Interests

Security Skills:

- Pentesting · HTB/THM · Linux Hardening · Networking (TCP/IP, OSI)
- Vulnerability Analysis · Malware Analysis Basics · Reverse Engineering (Ghidra)
- Python for Security · Log Analysis · Threat Detection
- OWASP · Burp Suite · Wireshark · Metasploit
- Network Security: TCP/IP, DNS/DHCP, VPN, Firewall Management (FortisGate), NAC Basics
- Blue Teaming: Log Analysis, Threat Detection (ML-Based), SIEM Monitoring, Incident Response Basics

Software Skills:

- Python · Java · FastAPI · Spring Boot · Microservices
- PostgreSQL · SQL · Docker · REST APIs

Tools:

- Git · GitHub · Postman · Swagger · Ghidra · Nmap · Nessus · Burp Suite · Metasploit · Wireshark

Languages:

- English (C1)

Projects

AI-Driven Cyber Attack Simulation & Detection Tool:

- Created Python scripts that simulate DDoS, SQLi, brute force attacks.
- Trained ML models (RandomForest, SVM) to detect attack patterns on CICIDS2017.
- Implemented detection API with FastAPI.
- Developed real-time attack dashboard using React & Chart.js.
- Logged all attack events in PostgreSQL for analysis.

Links

- LinkedIn
- GitHub