Atahan Emir Kucuk

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EDUCATION

Purdue University   **West Lafayette, IN**
Bachelor of Science in Computer Information Technology   *December 2022*
- **Majors:** Cybersecurity and Network Engineering Technology
- **Organizations & Awards:** Purdue Cycling Club, Turkish Student Association, Semester Honors (Spring 2021)
- **Related Coursework:** Cyber Forensics, Cybersecurity Fundamentals, Data Communications and Networking, Database Fundamentals, Incident Response Management, Internet Design and Implementation, Systems Development, Intro to Cryptography, Network Administration, Network Security, Object Oriented Programming, Storage Area Networking, Systems Administration, Systems Programming, UNIX fundamentals, Wireless Networks, Vulnerability Analysis, Social Engineering, Systems Analysis and Design, Cyber Criminology, Mobile Forensics

TECHNICAL EXPERIENCE

Personal Projects and Involvements   **West Lafayette, IN**
Hobbyist   *December 2021 - Present*
- Built a home lab involving 2 Raspberry Pi's running PiKVM and Pi-hole respectively, in addition to an Ubuntu Server configured with automated deployment of Docker containers of services with a custom Ansible playbook.
- Participated in CTFs (Capture the Flag) and training/learning modules offered by TryHackMe and HackTheBox.
- Designed, coded, and revised a personal website to showcase personal projects and course lab work.

Purdue University – Network Infrastructure Projects   **West Lafayette, IN**
Network Engineer   *August 2018 - Present*
- Led and contributed to architecture, configuration, and testing of wired and wireless enterprise network environments involving Cisco, Aruba, and Ubiquiti networking products, routing protocols, TCP/IP, 802.1x, and VLANs.
- Utilized pfSense and VyOS firewalls to experiment with different VPN protocols such as OpenVPN, IPsec, and L2TP, authentication was handled by RADIUS set up on Active Directory domain controllers on network.
- Configured TrueNAS as iSCSI target server for PXE booting, used CHAP for authentication and authorization.
- Guided and administered a team of 3 network administrators to devise a network plan for implementing Microsoft Exchange, Postfix, NGINX, Squid Proxy, and DNS servers with Active Directory and pfSense, and F5 BIG-IP.

Purdue University – Cybersecurity Projects   **West Lafayette, IN**
Cybersecurity Engineer   *August 2018 - Present*
- Deployed an enterprise network system including legacy and modern systems, devised, and implemented Computer Incident Response Plan (CIRP), and tested with attacks targeting CIA (Confidentiality, Integrity, Availability) triad.
- Monitored by Elastic Stack and OSSEC, hardened the Ubuntu server per CIS Ubuntu Linux benchmarks.
- Built a Raspberry Pi security camera with motion detection capabilities with OpenCV and notifies via email.
- Performed vulnerability analysis and exploitation on Metasploitable2, WebSploit, and DVWA Docker containers with OpenVAS, Msfconsole, Hydra, Medusa, Recon-ng, Maltego, Burp Suite, and Nmap.
- Conducted and contributed to digital forensics investigations on disks, disk images, and Android mobile devices.

Purdue University – Coding Projects   **West Lafayette, IN**
Software Developer   *August 2018 - Present*
- Leveraged Oracle SQL to filter out a database and created ERD designs.
- Developed applications and scripts with Python, Bash, C, and Java.

SKILLS

Programming Languages: Python, Java, C, C#, SQL, Bash, JavaScript, CSS, HTML

Operating Systems: Windows, Windows Server, Linux (Kali, Ubuntu, Debian, CentOS), FreeBSD, macOS

Tools: Wireshark, Nmap, Burp Suite, Msfconsole, Autopsy, OSSEC, Elastic Stack, Magnet AXIOM, OSForensics, Git, Ansible, Docker, VMware ESXi, Nessus, pfSense, VyOS, TrueNAS, inSSIDer, FTK Imager, F5 BIG-IP, Squid, NGINX

Certifications: EC-Council Certified Ethical Hacker (C|EH)

Interests and Languages: Mountain Biking, Hacking, Programming, Travelling, Photography, Turkish, French