

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 and 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

- Constructed a home lab involving 2 Raspberry Pi's running PiKVM and Pi-hole respectively, and Ubuntu Server configured with automated deployment of Docker containers of 10+ services with a custom Ansible playbook.
- Completed CTFs (Capture the Flag) and 20+ training/learning modules offered by TryHackMe and HackTheBox.
- Designed, programmed, and revised personal website to showcase 12+ projects with HTML, CSS, and JavaScript.

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 network 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.
- 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, 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); tested against 3 attacks targeting confidentiality, integrity, and availability of data.
- Monitored servers by Elastic Stack and OSSEC, hardened Ubuntu server per CIS Ubuntu Linux benchmarks.
- Built a Raspberry Pi-powered security camera with email notifications, and 97% motion and facial recognition rate using OpenCV, Python, and Flask web framework; converted Python 2 code to Python 3.
- Deployed PKI-enabled applications and configurations to manage authentication and authorization of users; increased efficiency by 30% by automating security-related processes.
- Facilitated and performed vulnerability analysis and exploitation on Metasploitable2, WebSploit, and DVWA Docker containers with OpenVAS, Msfconsole, Hydra, Medusa, Recon-ng, Maltego, Burp Suite, Nessus, and Nmap.
- Utilized disk and data capture tools to recover data from computer hard drives, storage devices, and Android mobile devices; adapted cyber forensics and executed disaster recovery plans, leading to 90% reductions in data losses.

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, English