

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 and configured home lab with Raspberry Pis running PiKVM and Pi-hole, and Ubuntu Server with automated deployment of Docker containers of 10+ services with Ansible playbook, resulting in an 80% reduction in deployment time.
- Designed, programmed, and revised personal website to showcase 12+ projects with HTML, CSS, and JavaScript.

Purdue University – Cybersecurity Projects

West Lafayette, IN

Cybersecurity Engineer

August 2018 – December 2022

- Utilized disk and data capture tools to recover data from computers and mobile devices, resulting in a 90% reduction in data losses; Adapted cyber forensics techniques and executed disaster recovery plans, ensuring data integrity and security.
- Deployed an enterprise network system including legacy and modern systems, devised, and implemented Computer Incident Response Plan (CIRP); tested against simulated attacks targeting confidentiality, integrity, and availability of data.
- Monitored servers by ELK Stack and OSSEC; hardened Ubuntu servers, resulting in a 50% increase in OS security.
- Built a Raspberry Pi-powered security camera with email notifications, and a 97% facial recognition rate using OpenCV.
- 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 various systems and services resulting in the identification and mitigation of critical vulnerabilities by 20%.

Purdue University – Network Infrastructure Projects

West Lafayette, IN

Network Engineer

August 2018 - December 2022

- Led and contributed to the design, configuration, and testing of enterprise wired and wireless networks using Cisco, Aruba, and Ubiquiti products, resulting in a 25% increase in network performance and security.
- Utilized pfSense and VyOS firewalls and Active Directory domain controllers on the network to experiment with different VPN protocols such as OpenVPN, IPsec, and L2TP; improved remote access and VPN security and reliability by 40%.
- Guided and oversaw a team of 3 network administrators to devise a network plan for implementing firewall zones, AD, load balancer, proxy, DNS, and a mail server resulting in a 30% increase in performance, security, and redundancy.

Purdue University – Coding Projects

West Lafayette, IN

Software Developer

August 2018 - December 2022

- Leveraged Oracle SQL to filter and organize a large database, resulting in a 25% increase in efficiency and accuracy in data retrieval; created ERD designs to visually represent and improve database structure.
- Developed programs and scripts using Python, Bash, Java, and C.

SKILLS

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

Tools/Knowledge: VMware ESXi, Docker, Wireshark, Burp Suite, Metasploit, TCP/IP, 802.1X, Routing Protocols, VLANs, Switching, Virtualization, Intrusion Detection, OSINT, Risk Assessment, Troubleshooting, Penetration Testing

Operating Systems: Windows, Linux, macOS

Certifications: EC-Council Certified Ethical Hacker (CEH)

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