BOJAN PETROV

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CAREER SUMMARY

Network Engineer • Software Developer

- ***Seeking an opportunity*** to contribute to a dynamic organization and make a meaningful impact in the field of computer engineering.
- With a ***solid foundation in computer engineering principles and coursework***, I am eager to apply my theoretical knowledge and gain practical experience through an internship opportunity.
- ***A proactive problem solver*** who works with confidence and ease in challenging and fast-paced environments.

AREAS OF EXPERTISE

- Java Programming
- C Programming
- C++ Programming
- Network Administration
- Network Security
- Virtualization
- Data Structures and Algorithms
- Object-Oriented Programming
- Structured Programming
- Functional Programming
- Linux
- Collaboration and Communication Skills

EDUCATION

10.2020 – Ongoing

Bachelor of Science in Internet, Networks and Security
Faculty of Computer Science and Engineering, Skopje, North Macedonia

PROJECTS

Network Management

Showcased and demonstrated Cacti by utilizing GNS3 and implementing the tool on a virtual machine, highlighting the powerful network monitoring capabilities and notable advantages of this tool in network administration. Furthermore, I successfully utilized Cacti to effectively monitor and analyze network performance, optimizing network efficiency and proactively identifying potential issues. As a result, I received positive feedback from peers and instructors, recognizing my strong technical skills and creativity in network administration.

Network Security

Led a team project focused on ***Network Security***, collaborating with teammates to defend a virtual machine from attacks in a simulated **capture-the-flag** (CTF) environment. Successfully securing the team's virtual machine during the blue phase (securing our virtual machine from cyber attacks), I implemented robust defenses and ensured its resilience against attacks from other teams. Our team excelled in the red phase of the project, skillfully navigating a hostile environment where teams aggressively competed to compromise each other's virtual machines while simultaneously defending our own. By actively participating in this project, I significantly enhanced my skills and knowledge in network security, continually striving for improvement.

Wireless Mobile Systems

Successfully implemented an extended service set (ESS) by setting up two access points in a laboratory environment. In a collaboration with other students, we configured the access points, selected communication channels, and established encryption for wireless communication. By connecting to the access points with a mobile device, we tested roaming functionality within the ESS. Through troubleshooting and adjustments, I ensured a seamless roaming experience for the mobile device. At the conclusion of the exercise, all access points were restored to their factory default settings.

Ethical Hacking

During a comprehensive penetration testing engagement, I conducted a series of targeted network attacks to evaluate security vulnerabilities. Initially, I performed reconnaissance using ***Nmap*** to identify active hosts and open ports on the network. Following this, I executed a DHCP exhaustion attack on the DHCP server using ***Yersinia***, which disrupted the allocation of IP addresses to legitimate devices. To further compromise network integrity, I carried out ARP spoofing between a victim machine and the server with ***Ettercap***, allowing me to intercept and manipulate network traffic. Finally, leveraging the **Metasploit** framework, I successfully exploited vulnerabilities on the victim machine, demonstrating the potential impact of these security weaknesses.