

UGANDA CHRISTIAN UNIVERSITY

FACULTY OF ENGINEERING

Weekly Project Report

Cybersecurity Bootcamp

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Date: 28 June 2025 at 08:36



Executive Summary

This report covers the cybersecurity bootcamp activities conducted from June 23 to June 27, 2025. The sessions provided practical experience in backend development, virtual machine setup, ethical hacking tools, and network security. We also explored advanced cybersecurity threats like Trojans and SQL injection techniques using DVWA.

Daily Activities

Monday, June 23

Mr. Kenneth Kabinga guided us in backend completion. He provided a frontend interface which we integrated with the backend. We refined our API endpoints and ensured the frontend communicated smoothly with the backend systems.

Tuesday, June 24

Madam Catherine began the cybersecurity bootcamp. We installed and configured essential environments including:

- Kali Linux
- Metasploitable
- OWASP Broken Web Applications

This setup laid the foundation for penetration testing and network simulations.

Wednesday, June 25

We concluded the day early and were given a take-home task to create a Trojan targeting a Windows system. The executable file had a '.exe' extension. This task deepened our understanding of social engineering and payload generation techniques.

Thursday, June 26

Due to power outages, our session ended prematurely. Before that, Madam Catherine gave a career guidance talk. A key takeaway was that excessive certification can be counterproductive, and real-world experience is equally important.

Friday, June 27

We wrapped up the week with SQL injection techniques using DVWA (Damn Vulnerable Web App). Despite ongoing power issues, we managed to explore basic and advanced injection methods for bypassing authentication and extracting database information.

Challenges Faced

- Frequent power outages disrupted sessions and slowed progress.
- Some systems faced compatibility issues during virtual machine setup.

Highlights

- Mastered setting up and using virtual machines.
- Successfully created a Windows Trojan executable as part of hands-on hacking.
- Improved Linux and terminal navigation skills.

Social Media Updates

- **LinkedIn:** [My post on cyber bootcamp](#)
- **Medium:** [Medium article on security integration](#)

Conclusion

This week offered an insightful look into backend integration, system vulnerability, and ethical hacking. I look forward to more hands-on sessions in advanced cybersecurity topics such as reverse engineering and network forensics.