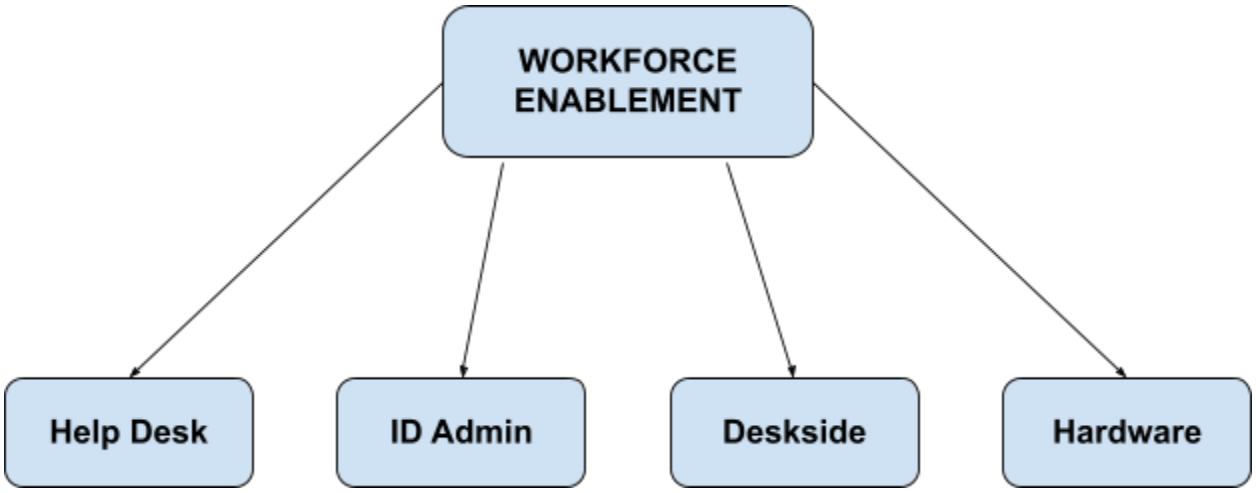
MAKESHIFT LOGBOOK FOR 6 MONTHS SIWES PROGRAM

1ST MONTH

WEEK 1 (WEEK ENDS: 10-02-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 06-02-2023	I was added to the Workforce Enablement (WFE) team at Chevron Nigeria Limited (CNL), Lekki. This team provides IT Support for all Chevron-owned establishments.
TUE. 07-02-2023	I started and completed several compliance training that equipped me with the company's best practices. Some of them include: Advanced Spear Phishing, Operational Excellence, Business conduct and Ethics code and Data privacy.
WED. 08-02-2023	I was introduced to the Help Desk, ID Admin, Deskside Support and Hardware units in the WFE team.
THU. 09-02-2023	I started learning Microsoft Power Platforms, a suite of productivity tools for building business applications at CNL. Those tools include: Power Apps, Power Automate, Power BI and Power Virtual agents.
FRI. 10-02-2023	I began my journey as an IT/Technical Support Specialist by reviewing the history of computers, how they perform calculations and the different hardware components that work together to make them function.

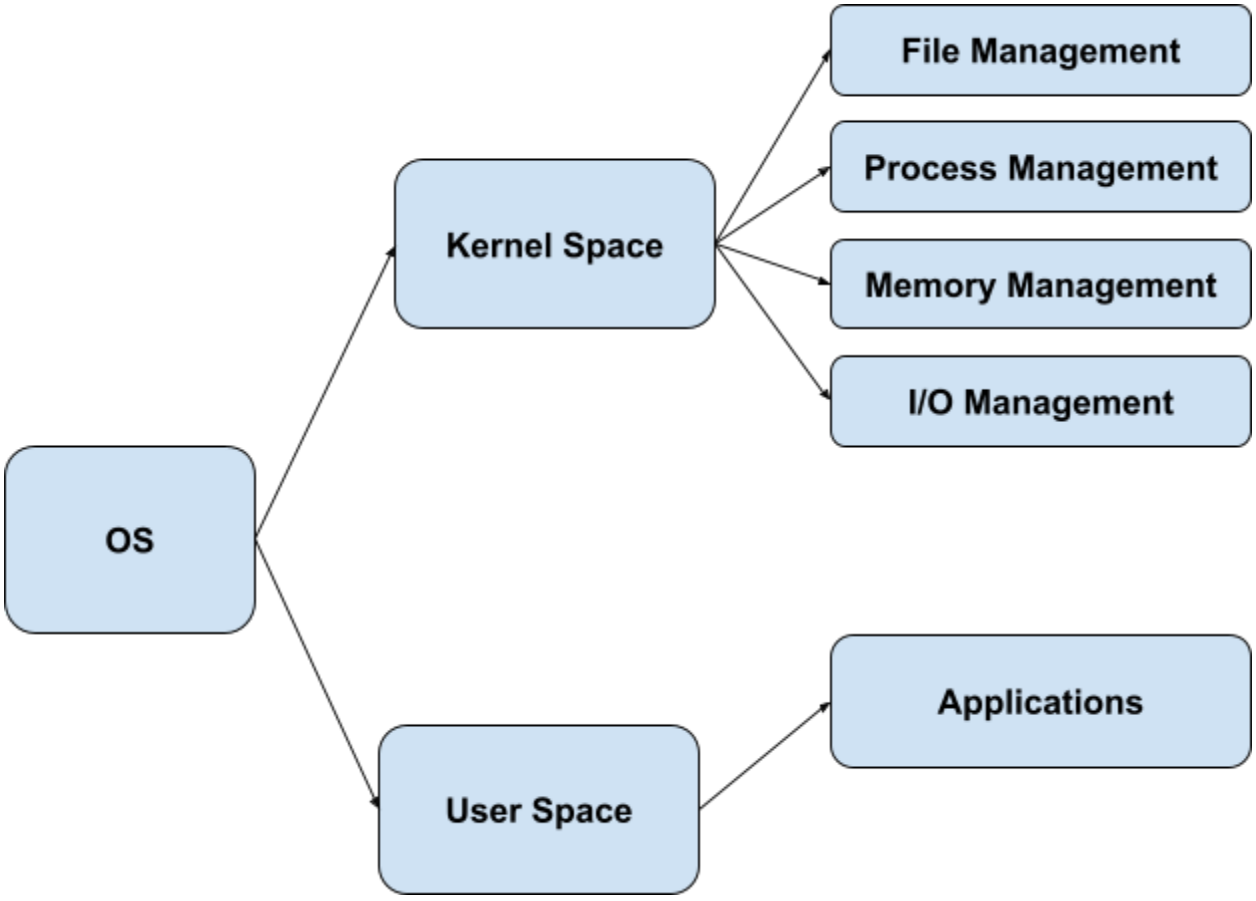
SKETCHES



WEEK 2 (WEEK ENDS: 17-02-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 13-02-2023	I was introduced to the main components that make up an operating system (OS), as well as to popular OS's (like Windows, Linux, MacOS, Chrome OS) in use today.
TUE. 14-02-2023	I understood and monitored the boot process of an operating system.
WED. 15-02-2023	I learnt how to install an operating system version (image) from scratch.
THU. 16-02-2023	I created and modified files using the Windows and Linux operating systems.
FRI. 17-02-2023	I re-imaged new laptops and desktops with Modern Desktop (Chevron's new pre-packaged Windows 10 OS).

SKETCHES



WEEK 3 (WEEK ENDS: 24-02-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 20-02-2023	I was acquainted with various network terminologies associated with computer networks such as: servers, clients, IP address, MAC address, etc.
TUE. 21-02-2023	I was introduced to networking devices (like hubs, switches and routers) used in Chevron.
WED. 22-02-2023	I was introduced to various cables (such as copper and fibre) used for data transfer in the Chevron environment and their respective functions.
THU. 23-02-2023	I collaborated with a small team to trim fibre cables used for installation in RJ-45 and RJ-11 telephones.
FRI. 24-02-2023	I assisted in configuring a rack of switches and routers for a small office used as a training centre.

SKETCHES

*Image/block diagram of both the TCP/IP and OSI models.

WEEK 4 (WEEK ENDS: 03-03-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 27-02-2023	I was acquainted with the concept of abstraction which software developers apply in separating an app's internal workings from its user-friendly interface.
TUE. 28-02-2023	I was introduced to scripting languages in both Windows and Linux that are used to automate processes in an IT environment.
WED. 01-03-2023	I assisted a team to automate the re-imaging of several laptops intended for use in the company.
THU. 02-03-2023	I used Google Qwiklabs to install, update and remove demo software on a Windows 10 virtual machine.
FRI. 03-03-2023	I used Google Qwiklabs to install, update and remove demo software on an Ubuntu Linux virtual machine.

SKETCHES

*Image/block diagram illustrating the concept of abstraction.

WEEK 5 (WEEK ENDS: 10-03-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 06-03-2023	I attended a seminar that enlightened me on best practices used in troubleshooting various software and hardware issues encountered by users.
TUE. 07-03-2023	I was briefed on several troubleshooting pitfalls (such as preempting a user's issue without sufficient information) and ensured to avoid them.
WED. 08-03-2023	I scanned through Chevron's complete helpdesk documentation on assisting and resolving users's issues.
THU. 09-03-2023	I diagnosed and resolved the inability of a user to extend his screen to two external monitors.
FRI. 10-03-2023	I resolved an internet connectivity issue several users in the finance department were facing.

SKETCHES

*Image/block diagram illustrating several levels/hierarchies/procedures/processes in troubleshooting or in resolving issues encountered by users.

MONTHLY SUMMARY OF WORK EXPERIENCE

I began my journey as an undergraduate intern at Chevron Nigeria Limited by being added to the Workforce Enablement team (WFE). I spent the first week completing several compliance training that equipped me with the company's best practices. I was also introduced to the various units under WFE and the productivity tools they use.

I reviewed my history of computers by performing calculations in binary and assembling a desktop PC from scratch. I learnt how to install Windows and Ubuntu Linux from scratch and started working with file systems on them.

I was then exposed to computer networks. I learnt various networking functions and terminologies and the networking devices that work to achieve them. I collaborated with a team to configure a rack of switches and routers for a small office.

As an IT Support Specialist in training, I was taught how to install and manage basic applications on both the Windows and Linux operating systems.

Finally, I read through Chevron’s complete helpdesk documentation and was actively involved in fixing users’ issues by following the right procedures in troubleshooting and diagnosis.

2ND MONTH

WEEK 1 (WEEK ENDS: 17-03-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 13-03-2023	I studied the two major models used to describe computer networks. They are the Transmission Control Protocol/Internet Protocol (TCP/IP) and the Open System Interconnection (OSI) models.
TUE. 14-03-2023	I was acquainted with the functions of the various layers of the TCP/IP model.
WED. 15-03-2023	I was acquainted with the functions of the various layers of the OSI model.
THU. 16-03-2023	I ran a test with several switches and routers to demonstrate their functionality.
FRI. 17-03-2023	I assisted in configuring another rack of switches and routers for a small office.

SKETCHES

*Detailed description of the TCP model.

WEEK 2 (WEEK ENDS: 24-03-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 20-03-2023	I was introduced to the IP addressing scheme used to describe computer networks.
TUE. 21-03-2023	I learnt about subnetting and performed binary mathematics to describe how it works.
WED. 22-03-2023	I demonstrated the concept of "encapsulation" in computer networks by/with…
THU. 23-03-2023	I understood the working principles of ARP Protocols and the various network layers it needs to communicate.
FRI. 24-03-2023	I understood the basics of routing and routing protocols.

SKETCHES

*An illustration of binary mathematics in describing subnetting.

WEEK 3 (WEEK ENDS: 31-03-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 27-03-2023	I attended a seminar that fully explored the transport and application layers of the TCP/IP computer networking model.
TUE. 28-03-2023	I was introduced to the roles of TCP ports and sockets in data transmission.
WED. 29-03-2023	I examined the different components of a TCP header.
THU. 30-03-2023	I performed an in-depth comparison between connection-oriented and connectionless protocols.
FRI. 31-03-2023	I learnt the various techniques in TCP used to ensure data integrity during transmission and reception.

SKETCHES

*Dissection of a TCP segment/datagram and IP segment/datagram

WEEK 4 (WEEK ENDS: 07-04-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 03-04-2023	I began exploring networking services by identifying the steps involved with a Domain Name System (DNS) lookup.
TUE. 04-04-2023	I was introduced to the most common DNS record types as well as those used in Chevron and their respective functionalities.
WED. 05-04-2023	I explored the role of Dynamic Host Configuration Protocols (DHCPs) in making network administration simpler.
THU. 06-04-2023	I learnt how Virtual Private Networks (VPNs) and Networking Address Translation (NAT) technologies work to keep computer networks secure.
FRI. 07-04-2023	I configured a test workstation with an internal Chevron-owned VPN to demonstrate how secure it was.

SKETCHES

*Image/block diagram describing the analysis of a domain name.

WEEK 5 (WEEK ENDS: 14-04-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 10-04-2023	I studied the components of Wireless Area Networks (WANs) and the basics of wireless and cellular networking.
TUE. 11-04-2023	I inspected and solved common network connectivity problems using **this tool** in Windows.
WED. 12-04-2023	I inspected and solved common network connectivity problems using **this tool** in MacOS.
THU. 13-04-2023	I inspected and solved common network connectivity problems using **this tool** in Linux.
FRI. 14-04-2023	I explored the role of popular cloud service providers like Google Cloud Provider (GCP), Amazon Web Services (AWS) and Microsoft Azure in securing computer networks.

SKETCHES

*Screenshot of a Command Line Interface during a troubleshooting exercise.

MONTHLY SUMMARY OF WORK EXPERIENCE

I dived deeper into my study of computer networks by exploring computer network models and the functions of each layer in them. I also performed tests on switches and routers to check their functionality before installing them for use in an in-company data centre.

I studied IP addresses, subnetting and various network protocols. I was introduced to the importance of encapsulation used in computer networking.

I attended a seminar that acquainted me with real-life uses of the transport and application layer of the Transmission Control Protocol/Internet Protocol (TCP/IP) model. I was introduced to TCP/IP ports, sockets, headers and data transmission techniques.

I was exposed to various Domain Name Service (DNS) record types and started looking up popular DNS's used in Chevron. I explored the roles of Dynamic Host Configuration Protocols (DHCPs), Virtual Private Networks (VPNs) and Networking Address Translation (NAT) in keeping computer networks secure.

Finally, I studied components of Wireless Area Networks (WANs) and cellular networking. I solved common network connectivity issues and explored the roles of cloud service providers in securing computer networks.

3RD MONTH

WEEK 1 (WEEK ENDS: 21-04-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 17-04-2023	I went further into operating systems by learning how to create files and directories using Windows Graphical User Interface (GUI) and Windows Command Line Interface (CLI).
TUE. 18-04-2023	I learnt how to create files and directories using Linux shell.
WED. 19-04-2023	I learnt how to search for specific files and directories using Windows GUI, Windows CLI and Linux shell.
THU. 20-04-2023	I learnt how to manipulate text and text files using Windows GUI and Windows CLI.
FRI. 21-04-2023	I learnt how to manipulate text and text files using Linux shell.

SKETCHES

*Screenshot of Windows GUI and Windows CLI performing create, search or manipulation operations.

*Screenshot of Linux shell performing create, search or manipulation operations.

WEEK 2 (WEEK ENDS: 28-04-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 24-04-2023	I was taught how to grant appropriate permissions to users and groups in the Windows operating system.
TUE. 25-04-2023	I was taught how to grant appropriate permissions to users and groups in the Linux operating system.
WED. 26-04-2023	I learnt how to add, modify and remove users on a Windows computer.
THU. 27-04-2023	I learnt how to add, modify and remove users using the Linux CLI.
FRI. 28-04-2023	I updated the user and file permissions on an existing project directory.

SKETCHES

*Screenshots of Windows GUI when modifying user and file permissions.

*Screenshots of Linux shell when modifying user and file permissions.

WEEK 3 (WEEK ENDS: 05-05-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 01-05-2023	I studied how Windows OS and Linux OS manages and distributes its software packages.
TUE. 02-05-2023	I was introduced to the various packaging and file compression methods in both Windows and Linux.
WED. 03-05-2023	I learnt how to install, repair and uninstall packages in both Windows and Linux.
THU. 04-05-2023	I was acquainted with how devices and drivers are managed in both Windows and Linux.
FRI. 05-05-2023	I downloaded and installed Microsoft Visual Studio on a Windows virtual machine.

SKETCHES

*Screenshots of package installation in Windows.

*Screenshots of package installation in Linux.

WEEK 4 (WEEK ENDS: 12-05-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 08-05-2023	I was introduced to different filesystem types in both Windows and Linux.
TUE. 09-05-2023	I was taught how to format and partition a disk in Windows.
WED. 10-05-2023	I was taught how to format and partition a disk in Linux.
THU. 11-05-2023	I was introduced to popular tools used to repair filesystems and disks in Windows and Linux.
FRI. 12-05-2023	I partitioned a Hard Disk Drive (HDD) on a machine intended to dual-boot both Windows and Linux operating systems.

SKETCHES

*Screenshots of popular tools performing disk partitioning in Windows.

*Screenshots of popular tools performing disk partitioning in Linux.

WEEK 5 (WEEK ENDS: 19-05-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 15-05-2023	I was introduced to the lifecycle of a process from its creation to its termination in both Windows and Linux.
TUE. 16-05-2023	I learnt basic commands for troubleshooting processes using Windows CLI and Linux shell.
WED. 17-05-2023	I learnt to use popular tools for resource monitoring and process management using Windows and Linux.
THU. 18-05-2023	I assisted in imaging new laptops with Chevron's Modern Desktop OS and deploying them for several end users.
FRI. 19-05-2023	I installed standard applications in Chevron's Virtual Workspaces for users working remotely (from home or from drilling sites) to access the company's resources and perform their day-to-day tasks.

SKETCHES

*Chart showing the lifecycle of a system process from creation to termination.

MONTHLY SUMMARY OF WORK EXPERIENCE

I went deeper into my study of operating systems by learning how to create and manage files and directories on Windows and Linux. I also learnt how to manipulate text files using the Command Line Interface in both operating systems.

I was exposed to user groups and permissions. I learnt how to add, modify and remove users using both the Graphical User Interface (GUI) and the Command Line Interface (CLI) users on Windows and Linux.

I learnt software packaging and file compression techniques in Windows and Linux. I was also acquainted with how peripherals and drivers are managed on both operating systems.

I was introduced to filesystem, disk formatting and disk partitioning techniques. I used Windows Disk Management to repair faulty disks in my office. I also partitioned a hard disk on a machine intended to dual-boot Windows and Ubuntu Linux.

Finally, I was exposed to the life cycle of a system process from initiation to termination. I learnt basic commands for troubleshooting and monitoring processes in Windows and Linux.

4TH MONTH

WEEK 1 (WEEK ENDS: 26-05-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 22-05-2023	I was introduced to the essentials of system administration. I studied the roles and responsibilities of a Systems Administrator.
TUE. 23-05-2023	I extensively studied Chevron's IT policy documentation on system administration.
WED. 24-05-2023	I was introduced to Chevron's vendor lifecycle for custom services and commercial products.
THU. 25-05-2023	I was introduced to the IT Infrastructure Services employed in Chevron.
FRI. 26-05-2023	I was introduced to User and Hardware Provisioning employed in Chevron.

SKETCHES

*Chart showing the various roles and responsibilities of a Systems Administrator.

WEEK 2 (WEEK ENDS: 02-06-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 29-05-2023	I understood the technical differences between a server and a client machine.
TUE. 30-05-2023	I was introduced to the various operating systems that run on Chevron's servers.
WED. 31-05-2023	I learnt how to troubleshoot Chevron's infrastructure and network services.
THU. 01-06-2023	I was exposed to software and platform services such as email, security, print and file services.
FRI. 02-06-2023	I understood how web servers work and ran a web server from my local machine to respond to a client request.

SKETCHES

*Chart showing the different aspects of software and/platform services.

WEEK 3 (WEEK ENDS: 09-06-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 05-06-2023	I began learning about directory services using the two most popular ones—Active Directory and OpenLDAP—as case studies.
TUE. 06-06-2023	I learnt how to add users, passwords and use group policies in Active Directory.
WED. 07-06-2023	I learnt how to add users, passwords and use group policies in OpenLDAP.
THU. 08-06-2023	I understood the difference between Lightweight Directory Access Protocol (LDAP) and Open Lightweight Directory Access Protocol (Open LDAP).
FRI. 09-06-2023	I was introduced to Centralised Management and how it helps System Administrators (SysAdmins) maintain and support different parts of an IT infrastructure.

SKETCHES

*Chart comparing Active Directory and OpenLDAP

WEEK 4 (WEEK ENDS: 16-06-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 12-06-2023	I was briefed on how data recovery and backups are important aspects of any SysAdmin role.
TUE. 13-06-2023	I was introduced to common corporate practices in data recovery and backups such as designing a recovery plan and writing post-mortem documentation.
WED. 14-06-2023	I was exposed to the trade-offs between on-site and off-site backups and recovery testing.
THU. 15-06-2023	I was introduced to various types of backup solutions.
FRI. 16-06-2023	I learnt about parameters to consider when designing a backup system.

SKETCHES

*Sample of a post-mortem documentation for data recovery

WEEK 5 (WEEK ENDS: 23-06-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 19-06-2023	I revisited network services with a view to understanding how they work with Domain Name Services (DNS) and Dynamic Host Configuration Protocols (DHCP).
TUE. 20-06-2023	I was exposed to web server security protocols.
WED. 21-06-2023	I was exposed to mobile synchronisation for network file storage.
THU. 22-06-2023	I learnt how to troubleshoot common printer issues.
FRI. 23-06-2023	I used all I learnt on Systems Administration to assess the IT infrastructure of 3 fictitious companies as case studies.

SKETCHES

*Chart/Image showing different aspects of IT infrastructure services.

MONTHLY SUMMARY OF WORK EXPERIENCE

I began a short journey on Systems Administration. I was exposed to the roles of a Systems Administrator and extensively studied Chevron's IT policy documentation on system administration.

I learnt how to troubleshoot Chevron's infrastructure and network services. I was exposed to software and platform services such as email, security, print and file services. I also understood how web servers work and ran a web server from my local machine to respond to a client request.

I learnt how to add users and passwords on two popular directory services: Active Directory and OpenLDAP. I was also introduced to Centralised Management and its role in System Administration.

I was introduced to data recovery and backup techniques. I learnt the trade-offs between on-site and off-site backups and key parameters to consider when designing a backup system.

At the end of this month, I revisited Domain Name Services (DNS), Dynamic Host Configuration Protocols (DHCP) and industry-accepted web server security protocols.

5TH MONTH

WEEK 1 (WEEK ENDS: 30-06-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 26-06-2023	I was introduced to the basics of security in an IT environment.
TUE. 27-06-2023	I identified common security risks and vulnerabilities in an IT environment.
WED. 28-06-2023	I was acquainted with the Confidentiality, Integrity and Availability (CIA) triad, which is the principle by which every security revolves.
THU. 29-06-2023	I was introduced to different threats faced in an IT environment such as malicious software, network attacks, client-side attacks, etc.
FRI. 30-06-2023	I was acquainted with essential security terms used in an IT workplace.

SKETCHES

*Image/chart of the CIA triad with subtitles explaining them briefly.

WEEK 2 (WEEK ENDS: 07-07-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 03-07-2023	I began to learn about the role cryptology plays in securing IT networks and infrastructure.
TUE. 04-07-2023	I was introduced to different types of encryption practices and how they work.
WED. 05-07-2023	I was introduced to the most common algorithms used in cryptography and how they've evolved over time.
THU. 06-07-2023	I was exposed to the common roles and duties performed by a cryptographer.
FRI. 07-07-2023	I learnt how to choose the most appropriate cryptographic methods for case scenarios in an IT workplace.

SKETCHES

*Chart showing the various types/algorithms used in cryptography.

WEEK 3 (WEEK ENDS: 14-07-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 10-07-2023	I understood the roles Authentication, Authorization and Accounting—the 3 A's in cybersecurity—play in a typical tech role.
TUE. 11-07-2023	I was exposed to best practices for authentication, such as multi factor authentication options.
WED. 12-07-2023	I was introduced to common software such as RADIUS, Kerberos and TACACS+ used for authentication.
THU. 13-07-2023	I was introduced to authorisation and access control methods.
FRI. 14-07-2023	I learnt best practices for accounting in an IT workplace.

SKETCHES

*Image/chart illustrating the 3 A's of cybersecurity

WEEK 4 (WEEK ENDS: 21-07-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 17-07-2023	I was given a high level overview of secure network architecture.
TUE. 18-07-2023	I was acquainted with some of the risks of wireless networks and how to mitigate them.
WED. 19-07-2023	I learnt how to monitor network traffic and read packet captures.
THU. 20-07-2023	I understood how VPNs, proxies and reverse proxies work.
FRI. 21-07-2023	I learnt how to use tcpdump to capture and analyse packets on a network.

SKETCHES

*Image/Chart illustrating the secure network architecture.

WEEK 5 (WEEK ENDS: 28-07-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 24-07-2023	I learnt how to implement network, system and application hardening for securing computer networks and systems.
TUE. 25-07-2023	I was acquainted with how to determine policies for OS security.
WED. 26-07-2023	I was introduced to host-based firewalls.
THU. 27-07-2023	I learnt how to set up anti-malware protection.
FRI. 28-07-2023	I learnt how to implement disk encryption and configure software patch management and application policies.

SKETCHES

*Screenshot of a typical Windows Defender Guide

MONTHLY SUMMARY OF WORK EXPERIENCE

I was introduced to the basics of IT security. I was acquainted with the Confidentiality, Integrity and Availability (CIA) triad and learnt how to identify common security risks and vulnerabilities in an IT environment.

I learnt the role of cryptology in securing IT environments. I was exposed to popular cryptographic algorithms, as well as to the day-to-day responsibilities of a cryptographer.

I was acquainted with the roles Authentication, Authorization and Accounting—the 3 A's in cybersecurity—play in a typical tech space. I learnt best practices and industry-standard software for authentication such as Multi-Factor Authentication (MFA) and RADIUS respectively.

I was exposed to a high level overview of secure network architecture. I learnt how to monitor network traffic and read packet captures and used tcpdump to capture and analyse packets on a network.

Finally, I was introduced to policies for operating system security. I learnt how to implement disk encryption and how to configure software patch management and application policies.

6TH MONTH

WEEK 1 (WEEK ENDS: 04-08-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 31-07-2023	I learnt the basic building blocks of programming in Python such as variable declaration, functions, conditionals and object-oriented programming.
TUE. 01-08-2023	I learn how to manipulate files and processes in Python.
WED. 02-08-2023	I learnt how to use bash scripting and regular expressions to perform automation of several operating system processes.
THU. 03-08-2023	I was introduced to automatic testing in Python—which automates how to check if a given Python code/script is correct.
FRI. 04-08-2023	I set up my own developer environment on my local machine and used the tools I learnt to process data and generate automatic reports.

SKETCHES

*Screenshot of the Python IDLE and the Bash terminal performing file manipulation.

WEEK 2 (WEEK ENDS: 11-08-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 07-08-2023	I was introduced to Git—a popular Version Control System (VCS) used to keep track of different versions of code.
TUE. 08-08-2023	I learnt how to set up GitHub—a service for hosting remote repositories to store code and configuration files.
WED. 09-08-2023	I learnt how to perform branching in Git/GitHub.
THU. 10-08-2023	I learnt how to perform merging in Git/GitHub.
FRI. 11-08-2023	I learnt how to collaborate with my teammates on given tasks via Git/GitHub.

SKETCHES

*Block diagram/sketch of a common Git operation.

WEEK 3 (WEEK ENDS: 18-08-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 14-08-2023	I was acquainted with the fundamentals of troubleshooting in IT automation.
TUE. 15-08-2023	I was introduced to the concept of debugging and employed tools like tcpdump, ps, top and itrace to optimise the debugging process.
WED. 16-08-2023	I was acquainted with factors that cause a computer to run slowly and understood how using threads makes the execution of code much quicker.
THU. 17-08-2023	I learnt how to handle errors and exceptions.
FRI. 18-08-2023	I was introduced to network saturation as well as some useful tools used for tackling it.

SKETCHES

*Screenshots of the Home Screen of debugging tools like tcpdump, ps, top and itrace.

WEEK 4 (WEEK ENDS: 25-08-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 21-08-2023	I was given a high level overview of Configuration Management and Cloud Computing.
TUE. 22-08-2023	I learnt the difference between unmanaged and managed configuration management.
WED. 23-08-2023	I was introduced to Infrastructure As Code (IaC) and was exposed to how it makes fleets of computer nodes more reliable and repeatable.
THU. 24-08-2023	I was introduced to Puppet—the current industry standard for configuration management. I learnt how to set up Puppet Clients and Servers.
FRI. 25-08-2023	I dived deeper into Puppet by exploring the difference between production and testing environments.

SKETCHES

*Image/Chart illustrating the functions of Puppet.

WEEK 5 (WEEK ENDS: 01-09-2023)

DAY	DESCRIPTION OF WORK DONE
MON. 28-08-2023	I was introduced to the various types of cloud services like Software-as-a-Service (SaaS), Platform-as-a-Service (PaaS) and Infrastructure-as-a-Service (IaaS).
TUE. 29-08-2023	I learnt how to manage instances in the cloud by creating one using Google Cloud Providers (GCP). I also performed horizontal and vertical scaling of certain resources using Chevron's default cloud service.
WED. 30-08-2023	I learnt how to customise and template virtual machines to deploy them at scale in a GCP instance.
THU. 31-08-2023	I dived deeper into managing resources in the cloud. I learnt about load balancing and basic monitoring in GCP.
FRI. 01-09-2023	I learnt how to use modules and Application Programming Interfaces (APIs) in Python in creating programs to solve real-world problems.

SKETCHES

*Image/chart illustrating the classification/categorisation of cloud services.

MONTHLY SUMMARY OF WORK EXPERIENCE

I began learning automation by mastering the building blocks of programming in python such as variable declaration, functions, conditionals and object-oriented programming. I learnt how to manipulate files and processes using bash and python scripting.

I was introduced to Git—a popular Version Control System (VCS) used to keep track of different versions of code—and GitHub—a hosting service for Git. I learnt how to perform branching, merging and how to collaborate with my teammates on them to accomplish given tasks.

I was acquainted with the fundamentals of troubleshooting in IT automation. I learnt how to handle errors and exceptions and employed tools like tcpdump, ps, top and itrace to optimise the debugging process.

I was introduced to Configuration Management, Cloud Computing and Infrastructure As Code (IaC). I learnt how to set up clients and servers on Puppet—the current industry standard for configuration management.

I was exposed to various types of cloud services like Software-as-a-Service (SaaS), Platform-as-a-Service (PaaS) and Infrastructure-as-a-Service (IaaS). I learnt how to manage instances in Google Cloud Providers (GCP).

Finally, I learnt how to use modules and Application Programming Interfaces (APIs) in Python in creating programs to solve real-world problems.