



Cybersecurity

COURSE BROCHURE



...in collaboration with Techeccentric

TheSkillGarage



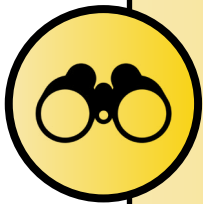
Who we are?

At TheSkillGarage, we believe in changing lives, one skill at a time. Our practical-first, hands-on approach to training, will help you start or accelerate your career in tech.

We primarily help those who are new to tech transition seamlessly to a career in tech.

We are positioned as a catalyst to continuously meet the growing market demand for seasoned and diverse IT professionals in the digital product and technology space.

Our candidates undergo intensive practical and skillset training to enable them serve as consultants, contract, freelance, part-time and full-time staff for start-ups, digital agencies and established companies across different industries globally.



Our Vision

Create a global community where career help in digital is accessible across all verticals and tech domain.



Our Mission

Start or accelerate career progression in the digital space by delivering relevant knowledge with commensurate work experience.



Our Purpose

Build a global community of digital experts that posses the digital skills that matter.

Our Pillars



COLLABORATIVE LEARNING

- Cross-functional teams
- Live Group work
- Brainstorm sessions



PRACTICAL WORK EXPERIENCE

- Industry standard tools
- Hands-on training
- Live projects
- Practice Sessions



BUILD AN ECOSYSTEM

- Interactions with Alumni
- Mentorship
- Networking
- On-the-job support



Unlock Your Future with Tech!

Dear Aspiring Techies,

In today's dynamic world, technology is not just an industry; it is a language, a movement, and a tool that's reshaping every facet of our lives. From the devices we use to the ways we communicate, learn, and innovate, technology plays an integral role. And you have an unprecedented opportunity to be part of this transformation!

At TheSkillGarage, we believe that the future is written by those equipped with the knowledge, skill and passion to shape it. We are not just talking about coding or algorithms, but a holistic understanding of technology and its myriad applications. The tech landscape is vast, filled with opportunities that stretch as far as your aspirations.

Whether you're completely new to tech or looking to refine your existing skills, our courses are designed to empower you with the tools, guidance, experience and confidence you need. Here is why you should consider taking the leap:

Global Opportunities: Tech transcends borders. With these skills, you are not limited to opportunities in one region or one country. The world becomes your playing field!

Continuous Innovation: The tech industry is always evolving. Dive in, and you will be part of an ever-growing community of innovators and problem solvers.

Empowerment: The ability to understand and harness technology gives you the power to create, to change, and to make a meaningful impact.



Growth & Flexibility: Tech offers diverse roles, from business analysis to product management, product ownership, UX design, Cybersecurity, project management, data analytics, and beyond. There is a niche for everyone, aligning with your unique strengths and passions.

Our commitment at TheSkillGarage is to guide you on this exhilarating journey. With world-class educators, a supportive community, and cutting-edge resources, we ensure your learning path is engaging, experiential, relevant, and tailored to your aspirations.

Embrace the future. Ignite your potential. Let's embark on this tech journey together and build a brighter, smarter, and more connected world!

Warmly,

Michael Akpan
CEO, TheSkillGarage

Meet Our Instructors



Uche is a Cybersecurity Consultant with years of experience across various sectors, He currently works for Watserv (A Centrilogic Company) as a Security Operations Specialist.

Uche is the Founder of Techeccentric and is passionate about growing the Cybersecurity community across Africa, helping individuals develop the skills required to succeed in the cybersecurity industry and helping organizations protect their IT infrastructure.

He enjoys running, cooking, and watching technology documentaries.



Michael is a seasoned cybersecurity expert who has worked in various capacities along the years.

His experiences as an IT Operations Specialist and Security Operations Specialist at Websdepot and WatServ, respectively have availed him a wide range of professional skills within the cybersecurity industry.

Michael currently holds a position as a Security Operations Specialist at Centrilogic in Ontario, Canada.



Oise, a tech enthusiast with over 10 years of experience in software development and cybersecurity, holds a master's degree in information technology from the University of Aberdeen.

Proficient in Java, Python, and C++, as well as Agile and Scrum methodologies, he has successfully contributed to building and securing applications for various organizations.

Alongside his professional endeavors, Oise is dedicated to fostering tech education by volunteering at local schools, conducting workshops, and mentoring students aspiring to enter the technology field.



AI Assisted Learning

Elevate your Learning Experience with Personalized AI Companions

At TheSkillGarage, we understand that the key to effective learning lies in personalization. As you embark on your journey into the world of cybersecurity, imagine having a dedicated guide—your own AI learning companion.

Crafted specifically for you, this technological ally seamlessly integrates with our expert instructors, ensuring a dynamic and personalized cybersecurity education.

Our AI partner is not just a tool; it's an extension of your learning potential.



Learning made Easy

Increased understanding and assimilation with the aid of Artificial Intelligence.

CYBER SECURITY





Getting Familiar

Cybersecurity refers to the practice of protecting computers, servers, networks, and other devices from digital attacks, unauthorized access to data, threats, and vulnerabilities.

Cybersecurity has more to do with ensuring the confidentiality, integrity, and availability of information systems, assessing threats and mitigating risks than it does hacking and writing complicated codes.



Be the Solution in a Cybersavvy World

Data is wealth in today's world. Little wonder why Cybersecurity professionals are now one of the most sought after people to keep individuals, businesses, and governments safe.

To give you the idea...



- There is an explosive growth of user engagement on IT and connected devices all over the world.
- Better Tools for Better Damage. Cyberthreats have increased in sophistication with increase in IT engagement.
- Jobs are now being taken over by robots. A total of 40,000 people have been laid off by Google, Microsoft and Amazon.
- Cybercrime damage is expected to reach \$10.5 trillion annually by 2025 (Cybersecurity Ventures, 2021).
- There were 3.4 million unfilled jobs in cybersecurity globally in 2022, according to (ISC)2 Cybersecurity Workforce Study.
- Cybersecurity professionals enjoy a high job security, satisfaction, and the flexibility of working remotely.
- An Entry-level cybersecurity analyst earns more than \$90,000 a year on average (ZipRecruiter).

Job Opportunities in Cybersecurity



Cybersecurity Specialist

Information Security Analyst

Security Operations Analyst


System Administrators

Incidence Response Analyst

Cloud Security Engineers

Network Analyst

Risk & Compliance Analyst



* Please note that our course outline is constantly being developed to meet evolving technology trends.

What you will learn

The curriculum also prepares you for industry certifications such as CompTIA Security+, GSEC and others. Our programs are delivered online to prepare our students for the work from home culture that is growing in demand.

- **Week 1 - Essentials of Security**
- **Week 2 - Organizational Governance & Risk Oversight**
- **Week 3 - Command-Line & Linux Fundamentals**
- **Week 4 - Mastering Windows System Administration**
- **Week 5 - Identity and Access Management**
- **Week 6 - Understanding Network Fundamentals**
- **Week 7 - Projects**
- **Week 8 - Securing Networks: Principles & Practices**
- **Week 9 - Principles of Cryptography in Security**
- **Week 10 - Career Preparations**
- **Week 11 - Securing the Cloud Environment**
- **Week 12 - Web development & Vulnerabilities**
- **Week 13 - Conducting a Penetration Testing Engagement & Projects**
- **Week 14 - Security Information and Event Management (SIEM) Strategies**
- **Week 15 - Digital Forensic Essentials**
- **Week 16 - Certification and Interview Preparation**

The Curriculum..

Essentials of Security

This unit will introduce simple concepts and lay the foundational principles of IT security to students. We will teach cyber threats, password management, and many more basic concerns.

Organizational Governance & Risk Oversight

The main aim of this class will be to give students a clear understanding of C-Suite officers as well as the responsibilities of the IT security department in organizations, and how organizations leverage on and create compliant organizational policies.

Command-Line & Linux Fundamentals

We will introduce students to the foundational knowledge of terminal, teaching them practical skills to help them use terminal and all the tools associated with it.

Students will be taken through the linux operating system and its architecture. They will be comprehensively taught the fundamentals of linux, both theoretically and practically.

Mastering Windows System Administration

In the Windows Administration class, we will comprehensively teach students all the fundamentals of Windows system administration. They will get their hands dirty practicing how to install, configure, and manage Windows systems.

Windows Administration in Cybersecurity

In the Windows Administration class, we will comprehensively teach students all the fundamentals of Windows system administration. They will get their hands dirty practicing how to install, configure, and manage Windows systems.

Understanding Network Fundamentals

In this unit, students will learn:

- The role of IP address in networking.
- The various networking devices available and transmission media.
- The different networking protocols.
- The Importance of network security, etc.

PROJECTS

Securing Networks in Cyberbersecurity

In this unit, students will be taught the critical skills of a network defender. They will be led to:

- Examine relationship between ports and firewalls;
- Understand intrusion detection systems as well as network security monitoring;
- Analyse indicators of attacks and compromises, etc.

Principle of Cryptography in Security

To intimate students with the subject matter, they will be taken through the history of cryptography, taught encryption, decryption, and key management. They will learn all cryptographic algorithms and experience real world applications of what they have learned.

Career Prep (Half Time)

All you need to know about choosing your careers and specialization in cybersecurity before completing the course



Securing The Cloud Environment

In this class, we will teach cloud computing service models, cloud networking, firewalls, and virtual computing.

Students will study the differences between cloud services and will be taught how to protect their cloud network with a firewall.



Identity and Access Management

In this class, you will learn critical concepts such as authentication methods, authorization models like Role-Based Access Control (RBAC), and directory services like LDAP and Active Directory. Students will understand emerging technologies such as blockchain and the Zero Trust Security Model to stay at the forefront of securing digital identities and access.




Web Development & Vulnerabilities

Here, students will learn about web application and web-server model HTTP communication process. Students will also learn secure communication protocols like HTTPS and SSH. We will teach students of this course common web vulnerabilities like buffer overflows, directory traversal attacks, etc. Finally, they will learn security best practices for web development.



Conducting a Penetration Testing Engagement & Projects

Students will learn to use common penetration testing tools while understanding the different techniques of gathering information. They will also learn different manipulation and exploitation tactics like fingerprinting and vulnerability scanning.



Security Information and Event Management (SIEM) Strategies

We will cover SIEMS (Security Information & Events Management) concepts and use cases. Students will learn how to use tools like Splunk to monitor and detect security events. They will also study threat intelligence concepts and security incident response processes.



Digital Forensic Essentials

In this class, we will discuss the concepts and methodologies of digital forensics. We will also study common digital forensics tools, data storage, acquisition, and analysis techniques while also studying common digital evidence types.

Projects

Student will be made to embark on a project that requires the use of all the tools and skills they have learnt at the end of the course.

This project will result in tangible deliverables that demonstrate your knowledge of web development, cloud security, network security, logging and monitoring.





AI- Powered Career Prep

SIMPLIFYING YOUR JOURNEY USING AI OPTIMIZATION

- Career Optimization
- Resume Updates
- LinkedIn Profiles Updates
- Cybersecurity Mock Interviews



CV and Interview Prep

THE RIGHT PATHS TO CAREER GROWTH

We will cover subject matter overviews, exam requirements and test-taking strategies for certifications such as Security+, CEH, and CISSP. Finally, we will observe mock exams to prepare you for the certifications.



Now prepare for class



Class Tech Requirements

Here are some technology resources our Cybersecurity and DevOps classes will require:

- Devices with the ability to run virtual machines.
- Mac & Windows machines should have the following minimum specs: Ram of 8gb (64 bit), Dual processor CPU, Hard Drive of 250 GB minimum, and a Mac OS or Windows 10 and above.
- Access to Azure cloud infrastructure for experiments.
- A variety of security tools and frameworks.
- Communication tools for remote teams, such as Microsoft Teams or Google Meet.



Optional Project



At the end of all the classes, as an optional project, students will be asked to embark on a project where they will be split into two teams and be asked to play on both sides.

The aim of this project will be to help them demonstrate their ability to work as a penetration tester (red team) and also to identify, detect, analyze and contain simulated attacks (blue team).

Extended Mentorship & Support

We will be providing on-the-job support on a subscription basis. The support may take many forms, such as providing training, troubleshooting technical issues, or offering advice on how to use the product or tool more effectively.



A Cybersecurity Ally

YOUR AI PARTNER



Premium Features

The use of AI will accelerate your learning experience

Customization

You can customize your AI Buddy to suit your needs and preferences.

Exclusivity

Access your AI Assistant as a SkillGarage student today.

At TheSkillgarage, we believe in empowering our students beyond the ordinary. Imagine having a dedicated ally in your cybersecurity learning journey—your very own AI partner.

Exclusive to TheSkillgarage, this personalized assistant transcends traditional boundaries, offering unwavering support for your academic success. From assisting with homework to providing guidance on projects, from crafting impressive resumes to simulating real-world interviews, your AI support is the key to unlocking your full potential in the dynamic field of cybersecurity.

Experience the power of a custom AI partner—because at TheSkillgarage, we're not just shaping careers; we're shaping futures.



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