

IT CAREERS CERTIFICATE ROADMAP

The pathway to success starts here

TRAINING & TESTING

TRAINING PROVIDER



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ACCREDITED BY



CAREER IN CYBERSECURITY

LEVELS

1. FOUNDATIONAL

- IT Specialist Networking
- IT Specialist Network Security
- IT Specialist Cybersecurity
- IT Specialist Device Configuration & Management
- CompTIA Project+

2. INTERMEDIATE

- Cisco Systems CCNA
- CompTIA Network+
- CompTIA Security+
- CompTIA Server+
- EC-Council CEH
- GIAC GISP
- GIAC GSEC
- eLearnSecurity eIPT

3. ADVANCED

- Cisco Systems CCNP
- CompTIA CySA+
- CompTIA PenTest+
- EC-Council CHFI
- GIAC GPEN
- GIAC GSLC
- GIAC GCED
- ISACA CISA
- ISACA CISM
- (ISC)2 CSSLP
- Offensive Security OSCP

4. EXPERT

- Cisco System CCIE
- CompTIA CASP+
- Offensive Security OSCE
- GIAC GWAPT
- ISACA CGEIT
- (ISC)2 CISSP
- Mile2 CPTE

CAREER IN INFRASTRUCTURE AND CLOUD LEVELS

1. FOUNDATIONAL

- AWS Cloud Practitioner
- CompTIA Project+
- Linux Professional Linux Essentials
- Vmware VCA
- IT Specialist Networking
- Microsoft Certified: Fundamentals
- IT Specialist Cybersecurity
- IT Specialist Network Security
- IT Specialist Device Configuration & Management

2. INTERMEDIATE

- SUSE SCA
- Red Hat RHCSA
- HDI Support Manager (SCM)
- CompTIA Linux+
- Vmware VCP
- Microsoft Certified: Associate
- CompTIA Network+
- Cisco Systems CCNA
- AWS Solutions Architect - Associate
- CompTIA Server+
- Linux Professional LPIC-1
- HDI Desktop Support Manager (DSM)
- AWS Systems Administrator - Associate
- Google Professional Workspace Administrator
- Offensive Security OpenStack Administrator

3. ADVANCED

- SUSE SCE
- Red Hat RHCE
- Vmware VCAP
- CompTIA Cloud+
- Cisco Systems CCNP
- Linux Professional LPIC-2
- AWS Solution Architect - Professional
- AWS Develop Engineer - Professional
- Microsoft Certified: Expect

4. EXPERT

- Red Hat RHCA
- SUSE SCE
- VMware VCDX
- CompTIA CASP+
- Cisco Systems CCDS
- Cisco Systems CCIE
- Hewlett-Packard ASE
- Linux Professional LPIC-3
- Google Certified Professional Cloud Architect

CAREER IN DATA & DATA ANALYTICS

LEVELS

1. FOUNDATIONAL

- CompTIA Project+
- ITIL Foundation
- PRINCE2 Foundation
- IT Specialist Networking
- IT Specialist Network Security
- IT Specialist Device Configuration & Management

2. INTERMEDIATE

- Aruba CCMP
- CompTIA Network+
- CompTIA Security+
- CWNP CWNA

3. ADVANCED

- ITIL Intermediate
- PMI CAPM
- PRINCE2 Practitioner
- ITIL Expert
- PMI PMP

4. EXPERT

- CompTIA CASP+
- ITIL Master
- Scrum Alliance CSP

CAREER IN ARTIFICIAL INTELLIGENCE

LEVELS

1. FOUNDATIONAL

- IT Specialist Artificial Intelligence
- IT Specialist Computational Thinking
- IT Specialist Data Analytics
- IT Specialist Databases
- CompTIA Project+
- Microsoft Certified: MOS

2. INTERMEDIATE

- CompTIA Data+
- CompTIA DataSys+
- CompTIA Linux+
- CompTIA Security+
- Microsoft Certified: Associate
- Tableau Certified Data Analyst
- Dell Data Science Associate (DCA-DS)
- Oracle MySQL 8.0 Database Administrator
- Oracle MySQL 8.0 Database Developer
- SAP Certification Technology Associate
- SAS Certified Specialist: Visual Business Analytics

3. ADVANCED

- Professional (CAP)
- Microsoft Certified: Expert
- Google Professional Data Engineer
- Analytics Certification Board Certified Analytics

CERTIFICATIONS
ACCEPTED BY:

CERTNEXUS

SAS

bpa BUSINESS
PROFESSIONALS
of AMERICA



cisco Networking
Academy

 **Pearson**

CAREER IN SOFTWARE DEVELOPMENT

LEVELS

1. FOUNDATIONAL

- IT Specialist Java
- IT Specialist JavaScript
- IT Specialist Python
- CompTIA Project+
- Python Institute PCEP
- Adobe Certified Professional (ACP)
- IT Specialist Software Development
- IT Specialist HTML and CSS
- IT Specialist HTML5 App Development

2. INTERMEDIATE

- AWS Developer - Associate
- CompTIA Linux+
- CompTIA Security+
- Oracle OCP Java SE Programmer
- CPP Institute C++ Certified Entry-Level Programmer
- MongoDB Certified Developer Associate Developer - Associate

3. ADVANCED

- Adobe Certified Expert (ACE)
- DevOps Engineer - Professional
- Framework 2 Certification
- Google DevOps Engineer
- Python Institute PCPP
- Zend Certified Engineer (ZCE)

4. EXPERT

- Scrum Alliance CSP
- Oracle Java EE Application Developer
- Adobe Certified Master (ACM)

Unlock Your Future: Tech Skills for a Global World

Empowering Ghana's Youth with Internationally Recognized Certifications



Artificial Intelligence (AI)

Imagine creating intelligent systems that can learn, understand, and make decisions. With AI skills, you'll be at the forefront of innovation, building the future.

Skills You'll Master:

- Machine Learning Fundamentals
- Data Analysis for AI
- Building AI Models
- Ethical AI Principles

Your Career Path:

Become an AI Engineer, Data Scientist, Machine Learning Specialist, or even an AI Ethicist. Industries like healthcare, finance, logistics, and entertainment are hungry for AI talent. Companies like Google, Microsoft, and IBM are constantly hiring for remote AI roles.

Potential Earnings:

Entry-level AI professionals can earn **\$60,000 - \$80,000+ USD** annually, with experienced professionals commanding **\$120,000 - \$200,000+ USD**, especially in remote positions for international companies.



Networking

Every connected device, every website you visit, relies on computer networks. Become the expert who designs, builds, and maintains the digital highways of our world.

Skills You'll Master:

- Network Protocols (TCP/IP)
- Network Design & Configuration
- Troubleshooting Network Issues
- Network Security Fundamentals

Your Career Path:

Work as a Network Administrator, Network Engineer, IT Support Specialist, or Systems Analyst. Every business, from small startups to large corporations like MTN, Vodafone, or banks like Ecobank, needs networking professionals. Remote roles are abundant with companies like Cisco, Juniper, and Amazon Web Services.

Potential Earnings:

Network professionals can expect to earn **\$50,000 - \$75,000+ USD** annually at entry-level, rising to **\$90,000 - \$150,000+ USD** for experienced roles, especially in remote setups.



Cloud Computing

The cloud is where the world's data and applications live. Learn to manage, deploy, and secure services on platforms like AWS, Azure, and Google Cloud, making you indispensable.

Skills You'll Master:

- Cloud Infrastructure Management
- Cloud Deployment & Migration
- Cloud Security Best Practices
- DevOps in the Cloud

Your Career Path:

Become a Cloud Engineer, Cloud Architect, DevOps Engineer, or Cloud Security Analyst. Every company moving to digital services needs cloud experts. Think of global giants like Amazon, Microsoft, and Google, or local tech hubs and banks. Many cloud roles are fully remote.

Potential Earnings:

Cloud professionals typically start at **\$70,000 - \$90,000+ USD** annually, with experienced specialists earning **\$100,000 - \$180,000+ USD**, especially for in-demand remote positions.



Computational Thinking

This isn't just about coding; it's about problem-solving like a computer scientist. Learn to break down complex problems, design solutions, and think logically – skills valuable in any field.

Skills You'll Master:

- Problem Decomposition
- Pattern Recognition
- Abstraction & Algorithm Design
- Logical Reasoning

Your Career Path:

While foundational, these skills are crucial for any role in tech, from Software Developer to Data Analyst, Project Manager, or even Entrepreneur. It's the mindset that employers universally seek.

Potential Earnings:

As a foundational skill, it boosts earning potential across various tech roles. For example, a Junior Software Developer with strong computational thinking could earn **\$55,000 - \$85,000+ USD**.



Cybersecurity

Protecting digital information is paramount in today's world. Become the digital guardian, defending systems and data from cyber threats and ensuring online safety.

Skills You'll Master:

- Threat Detection & Prevention
- Vulnerability Assessment
- Incident Response
- Network & Application Security

Your Career Path:

Pursue roles as a Cybersecurity Analyst, Ethical Hacker, Security Consultant, or Incident Responder. Every organization, from government agencies to banks (e.g., Bank of Ghana, Zenith Bank), telecom companies, and e-commerce platforms, needs robust cybersecurity. Global companies like IBM, Deloitte, and Palo Alto Networks offer many remote positions.

Potential Earnings:

Entry-level cybersecurity roles start at **\$65,000 - \$95,000+ USD** annually, with experienced professionals earning **\$100,000 - \$180,000+ USD**, reflecting the high demand and critical nature of the work.



Data Analytics

Data is the new oil! Learn to extract insights from vast amounts of information, helping businesses make smarter decisions and discover new opportunities.

Skills You'll Master:

- Data Collection & Cleaning
- Statistical Analysis
- Data Visualization
- Reporting & Storytelling with Data

Your Career Path:

Become a Data Analyst, Business Intelligence Analyst, Marketing Analyst, or Financial Analyst. Every industry, from retail to healthcare, finance, and government, relies on data for growth. Companies like Google, Amazon, and Nielsen are always looking for data talent, often with remote options.

Potential Earnings:

Junior Data Analysts can earn **\$55,000 - \$80,000+ USD** annually, with experienced professionals reaching **\$90,000 - \$150,000+ USD**, especially for remote international roles.



Databases

Behind every app, every website, every piece of software, there's a database storing critical information. Master the art of organizing and managing this digital treasure.

Skills You'll Master:

- SQL & NoSQL Database Management
- Database Design & Optimization
- Data Backup & Recovery
- Database Security

Your Career Path:

Become a Database Administrator (DBA), Data Engineer, or Backend Developer. Any company that manages customer data, inventory, or financial records needs database expertise. Think banks, telcos, e-commerce, and major tech firms like Oracle and Microsoft. Remote database roles are common.

Potential Earnings:

Entry-level Database Specialists can earn **\$50,000 - \$75,000+ USD** annually, with experienced DBAs earning **\$90,000 - \$140,000+ USD**, particularly for complex systems and remote work.



HTML and CSS

Every webpage you see is built with HTML and styled with CSS. This is your gateway to creating beautiful and functional websites, bringing ideas to life on the internet.

Skills You'll Master:

- Structuring Web Content with HTML
- Styling Webpages with CSS
- Responsive Design for All Devices
- Basic Web Development Principles

Your Career Path:

Start as a Junior Web Developer, UI Designer, or Freelance Web Designer. Every business needs an online presence, from local shops to global brands. Companies like Shopify, Wix, and countless design agencies are constantly seeking front-end talent. This skill is highly sought after for remote work.

Potential Earnings:

Freelance projects can range from **\$500 - \$5,000+ USD** per website. Entry-level Front-End Developers can earn **\$45,000 - \$70,000+ USD** annually, with remote opportunities potentially higher.



Java

Java powers billions of devices globally, from Android apps to enterprise systems. Become a master of this versatile language and build robust, scalable software.

Skills You'll Master:

- Object-Oriented Programming
- Android App Development
- Enterprise Software Development
- Backend System Design

Your Career Path:

Work as a Java Developer, Android Developer, Backend Engineer, or Software Architect. Major employers include global tech companies like Google, Amazon, and IBM, as well as financial institutions (e.g., Fidelity Bank, GCB Bank) and telecom providers (e.g., Vodafone, AirtelTigo) that rely on Java for their core systems. Remote Java developer jobs are plentiful.

Potential Earnings:

Entry-level Java Developers can expect **\$60,000 - \$90,000+ USD** annually, with senior roles commanding **\$100,000 - \$180,000+ USD**, especially for remote roles with international companies.



JavaScript

The language of the web! JavaScript makes websites interactive and dynamic. Master it to build engaging user experiences and powerful web applications.

Skills You'll Master:

- Interactive Web Development
- Front-End Frameworks (React, Vue)
- Backend with Node.js
- APIs & Asynchronous Programming

Your Career Path:

Become a Front-End Developer, Full-Stack Developer, or JavaScript Developer. Every modern web application relies on JavaScript. Companies like Netflix, PayPal, and Meta hire JavaScript experts globally, with a significant demand for remote talent.

Potential Earnings:

Junior JavaScript Developers can earn **\$55,000 - \$85,000+ USD** annually, with experienced Full-Stack JavaScript Developers earning **\$90,000 - \$160,000+ USD**, particularly for remote positions.



Network Security

A specialized field within cybersecurity, focusing on protecting network infrastructure. Learn to build impenetrable digital defenses and safeguard data in transit.

Skills You'll Master:

- Firewall & VPN Configuration
- Intrusion Detection/Prevention
- Wireless Network Security
- Security Auditing

Your Career Path:

Become a Network Security Engineer, Security Administrator, or Penetration Tester. This skill is vital for telecom companies, ISPs, banks, and any organization with a significant network presence. Major employers include Cisco, Microsoft, and various cybersecurity firms, with many remote opportunities available.

Potential Earnings:

Entry-level Network Security Specialists can earn **\$60,000 - \$90,000+ USD** annually, with experienced professionals reaching **\$100,000 - \$170,000+ USD**, a reflection of the high demand and specialized nature of the role.



Python

Python is one of the most popular and versatile programming languages. From web development to data science and AI, Python opens doors to countless opportunities.

Skills You'll Master:

- Python Programming Fundamentals
- Web Development (Django, Flask)
- Data Analysis & Visualization
- Machine Learning & AI Applications

Your Career Path:

Become a Python Developer, Data Scientist, Machine Learning Engineer, or Web Developer. Python is used by tech giants like Google, Netflix, and NASA, as well as startups and financial firms worldwide. Its versatility makes it a top choice for remote development roles.

Potential Earnings:

Entry-level Python Developers can earn **\$60,000 - \$90,000+ USD** annually, with experienced professionals commanding **\$100,000 - \$180,000+ USD**, especially in high-demand areas like AI and data science.



Software Development

Turn ideas into functional applications. This comprehensive course teaches you the full lifecycle of building software, from concept to deployment.

Skills You'll Master:

- Programming Languages (e.g., Python, Java, JavaScript)
- Software Design Principles
- Testing & Debugging
- Version Control (Git)
- Agile Methodologies

Your Career Path:

Become a Software Engineer, Full-Stack Developer, Mobile Developer, or Game Developer. Every tech company, from startups to multinationals, needs skilled software developers. Consider working for Google, Microsoft, Facebook, or even local Ghanaian tech startups. Remote Software Development is a global standard.

Potential Earnings:

Junior Software Developers can earn **\$60,000 - \$90,000+ USD** annually, with experienced developers and architects earning **\$100,000 - \$200,000+ USD**, particularly for remote roles with leading tech firms.



HTML5 Application Development

Beyond basic webpages, HTML5 allows for rich, interactive web applications. Learn to build dynamic experiences that run seamlessly across all devices.

Skills You'll Master:

- Advanced HTML5 Features (Canvas, Geolocation)
- Responsive Web Design
- Web APIs Integration
- Cross-Browser Compatibility

Your Career Path:

Specialize as a Front-End Developer, UI/UX Developer, or Mobile Web Developer. This skill is critical for any company building modern web or hybrid mobile applications. Many agencies and tech companies hire remotely for these skills.

Potential Earnings:

Entry-level HTML5 Developers can earn **\$50,000 - \$75,000+ USD** annually, with experienced specialists reaching **\$80,000 - \$130,000+ USD**, especially in remote roles.



Device Configuration & Management

From smartphones to laptops and IoT devices, learn how to set up, secure, and troubleshoot various hardware, ensuring smooth operation for individuals and businesses.

Skills You'll Master:

- Operating System Installation & Configuration
- Hardware Troubleshooting
- Device Security & Updates
- Mobile Device Management (MDM)

Your Career Path:

Become an IT Support Specialist, Help Desk Technician, Systems Administrator, or Field Service Engineer. Every organization with employees using technology needs these skills. Consider roles at banks, government offices, schools, or IT service providers. While some roles require on-site presence, many support roles can be remote.

Potential Earnings:

Entry-level IT Support roles can earn **\$40,000 - \$65,000+ USD** annually, with experienced Systems Administrators earning **\$70,000 - \$110,000+ USD**.

Real-World Impact: Igniting Careers Just Like Yours

While our journey in Ghana is just beginning, the impact of these certifications is felt globally. Hear from individuals whose lives were transformed by mastering these very skills.

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"Before I found my path in tech, I felt stuck. Learning Python and Data Analytics opened up a world of possibilities. Now, I work remotely for a company in Europe, analyzing market trends. It's not just a job; it's a future I built for myself."

- Aisha, Data Analyst (Remote from Nigeria)

“

"Cybersecurity seemed like something out of a movie until I started learning. The skills I gained were immediately valuable. I now help protect critical infrastructure, and the demand for my expertise is incredible. This certification changed my entire trajectory."

- Kwame, Cybersecurity Specialist (Ghanaian working with a global firm)

“

"I started with HTML and CSS in high school, just for fun. That foundation led me to JavaScript and then full-stack development. Now I'm building amazing web applications for clients all over the world, right from my home. It's freedom and opportunity combined."

- David, Full-Stack Developer (Remote from Kenya)

“

"My parents always pushed for traditional careers. But when I showed them the potential of cloud computing and the global demand, they saw the light. I'm now a certified Cloud Engineer, contributing to innovative projects, and my future looks brighter than ever."

- Ama, Cloud Engineer (Ghanaian working remotely for a US company)



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Ready to Shape Your Future?

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