

Dr. Adel Elmaghraby, University of Louisville

Dr. Michael Tu, Purdue University Northwest

Dr. Tarek Saadawi, City University of New York,
City College













#### Dr. Eman El-Sheikh

Associate Vice President and Professor, Center for Cybersecurity, University of West Florida

#### **Dr. Sharon Kerrick**

Assistant Vice President, Digital Transformation Center, and Associate Professor, Human Resource Organizational Development, University of Louisville

#### **Dr. Adel Elmaghraby**

Director of Research and Innovation, Digital Transformation Center, and Winnia Professor, Computer Science and Engineering, University of Louisville

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#### **Dr. Tarek Saadawi**

Cybersecurity Master's Program Co-Founder, City University of New York, City College



## CyberSkills2Work.org cyberSkills2Work

## **University of** West Florida

- √ 10 CAE-C Coalition
- √ Trained 3250+ learners over 5 years
- ✓ Free for transitioning military, veterans, first responders, women, underrepresented minorities, & govt. employees
- ✓ 200+ learning objects shared on clark.center
- ✓ Employers Network







#### CYBERSECURITY **WORK ROLES**

- Cyber Defense Analyst
- Cyber Defense Forensics Analyst
- Cyber Defense Incident Responder
- Cyber Defense Infrastructure Support **Specialist**
- Exploitation Analyst
- ICS Threat/Warning Analyst
- Security Architect
- Systems Security Analyst
- Technical Support Specialist
- Threat Warning Analyst
- Threat/Warning (OSINT and Dark Web) Analyst
- System Administrator
- Vulnerability Assessment Analyst

#### PARTICIPATING NCAE-C INSTITUTIONS

- 1. Augusta University
- 2. Columbus State University
- 3. Dakota State University
- 4. Eastern New Mexico University-Ruidoso
- 5. Florida International University
- 6. Metro State University
- 7. San Antonio College
- 8. University of South Florida Cyber Florida
- 9. University of Texas at San Antonio
- 10. University of West Florida (Lead Institution)



#### **INDUSTRY CERTIFICATIONS**

- AWS Certified Cloud Practitioner
- CompTIA A+
- CompTIA Advanced Security Practitioner
- CompTIA Cybersecurity Analyst CySA+
- CompTIA IT Fundamentals ITF+
- CompTIA Linux+
- CompTIA Network+
- CompTIA PenTest+
- CompTIA Security+
- EC-Council Certified Ethical Hacker (CEH)
- EC-Council Certified Incident Handler (ECIH)
- EC-Council Certified SOC Analyst (CSA)
- EC-Council Disaster Recovery Professional (EDRP)
- eLearnSecurity Junior Penetration Tester
- **ISACA Certified Information Security** Manager (CISM)
- MITRE ATT&CK Micro-Certification
- Splunk Micro-Certification



















# Explorer (Badge/s= Al Fundamentals & Design Thinking Practitioner)

- DB Management
- Security Principles & Foundations
- Network Foundations
- Artificial Intelligence
- IT Basics
- Privacy/Legal Foundations and Ethics
- Coding
- Cryptography

Practitioner
(Badge/s= Cloud
Foundations,
Cisco and
Blockchain)

- Cyber threat hunting
- Information Security
- Network Security
- Cognitive Computing
- Data Mining
- Cloud Foundations
- Blockchain
- Forensics

<u>Professional</u> (Badge/s=Artificia I intelligence + others)

- DB Security
- Cloud security
- lo
- Post Quantum Cryptography
- Risk Analysis
- Robotics Process Automation Analysis
- Healthcare Capstone Project
- Logistics Capstone Project

Healthcare
Logistics
Cybersecurity
(Certificate)
6 months/
8 week
courses/online
instructor led—
Cohorts of 35-40

PATHS to:

- \*Associate
- \*Bachelors
- \*Graduate
- Degrees And/or
- Certificates

Curricula developed as core foundational with tracks in Healthcare industry and Logistics (Labs, Datasets)

<u>Tech Industry badges earned</u> throughout (IBM, Microsoft, Google etc.)

Train the Trainer and Open Source modules available- please inquire

Success Coaches assigned to each student

<u>www.louisville.edu/education/nsacybersecurity</u> | 502.852.3871 Healthcare and Logistics Tracks – Workforce Certificate | 04.08.22







- Two CWCT certificate programs and 3 training tracks
  - Artificial Intelligence
  - Digital Forensics
  - System Administration
- Six non-credit, college level courses per learning path
  - non-credit transcripts and program completion certificate
  - Offered through live virtual lectures
    - Virtual Live lectures recorded
- 8-week sessions-terms
  - 6 hours per week
  - Take 1-2 courses per session
  - 5 sessions per year
- Industry certifications
  - A+, Security+, Linux+, CEH, etc
  - 1-3 voucher for certifications
- Placement
  - Career development workshops
  - Virtual job fairs

	Core Courses	3 Remaining Courses Specific
Tracks	(CWCT-	to Each Track of CWCT-
14.	Entry)	Professional
System		4. Linux System Administration
Administ	1. CompTIA A+	5. Ethical Hacking
ration	<b>9</b> //	6. Cloud System Administration
	2. CISCO Cyber	4. Linux System Administration
Digital	Ops	5. Computer Forensics
Forensics		6. Digital Forensic Investigator
	3. CompTIA	7. Optional: IoT & Mobile Forensics
	Security+	4. Python Essentials
Al		5. Machine Leaning in Cybersecurity
		6. IoT & Hardware Security

## **Questions for the Panel**













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#### **<u>Dr. Tarek Saadawi</u>** (moderator)

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### **Connect with Us**



University of West Florida

University of Louisville

Purdue University
Northwest

CyberSkills2Work Program

Pathways Coalition

**CWCT** 

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<u>louisville.edu/education/nsacy</u> bersecurity

engineering.louisville.edu/cyb ercenter/homepage/workforce -program Dr. Michael Tu

Michael.Tu@pnw.edu

www.cyberworkforces.com

www.pnw.edu/cybersecuri ty/cwct/

