

# Joseph Frusci, Ed.D.

Computer Science Educator & Senior Systems Administrator

My professional background has been grounded in systems administration & engineering (networks, security, sysadmin, virtualization, cloud). After 15 years working in the profession, as both a U.S. Army soldier and senior systems administrator in the private sector, I now teach networking, cybersecurity, cloud computing, and Python programming for the New York City Department of Education.

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## TEACHING EXPERIENCE

### Networking, Cybersecurity, Cloud Computing, Python Programming

Staten Island Technical High School

09/2014 - Present

Staten Island, NY

#### Tasks/Achievements

- Critique and assess the strengths and weaknesses of general cybersecurity models, including the CIA triad. Hardening and securing systems, while ensuring high availability and integrity of data.
- Covering all protocols and best practices of networking: OSI Model, DNS, DHCP, SFTP, SSH, TLS, VPNs, Firewalls, IPS, IDS, routing, and switching using Cisco Networking Academy and Packet Tracer.
- Using Python to teach network automation, port scanning, security, and cryptography. This is done in a virtual environment using VMware to run Kali Linux for the offensive/defensive toolkit, as well as Pycharm for Python coding.

## WORK EXPERIENCE

### Senior Systems and Security Administrator

RTech Healthcare Revenue Technologies  
acquired by TransUnion

01/2007 - 09/2014

New York, NY

#### Tasks/Achievements

- I configured and administered the network and cybersecurity infrastructure that was HIPAA compliant. I helped create the first hybrid cloud for the company.
- I setup, configured and maintained all file and production servers in the infrastructure, as well as Active Directory in the Domain Controller. These servers were upgraded from Windows Server 2003 to 2008 r2, then to Server 2012.
- I helped established new IT policies, which defined acceptable use of IT assets within the company. These policies included firewall rules, encrypted email policies, group policies and organizational units.
- Created virtual servers through a Type 1 Hypervisor. These virtual servers would eventually host Active Directory and other infrastructure servers.

## EDUCATION

### Ed.D. - Technology Education

Northeastern University

01/2015 - 02/2019

### MS - Information Systems Security

American Military University

01/2013 - 06/2014

### MA - History

American Military University

06/2007 - 05/2010

### BA - History

American Military University

09/2004 - 06/2007

## PROFESSIONAL CERTIFICATIONS

Cisco Certified Support Technician: Cybersecurity

<https://bit.ly/4186fnO>

Cisco Certified Support Technician: Networking

<https://bit.ly/3nou51a>

Microsoft Certified: Security, Compliance, and Identity Fundamentals

<https://bit.ly/42cV7H1>

Microsoft Certified: Azure AI Fundamentals

<https://bit.ly/3OKWFot>

Microsoft Certified: Azure Fundamentals

<https://bit.ly/3ozZDl1>

Microsoft Certified: Azure Data Fundamentals

<https://bit.ly/3qn6Aq0>

Microsoft Certified: Security Fundamentals

F963-4879

Microsoft Certified: Windows Server Administration

F963-4878

Microsoft Certified: Cloud Fundamentals

G153-5678

## WORK EXPERIENCE

### Systems and Network Associate

#### Dell Technologies

04/2005 - 01/2007

New York, NY

##### Tasks/Achievements

- Served as both a network and server technician.
- Provided onsite technical support to companies that held warranties with Dell Technologies.
- Diagnosed and repaired Dell PowerEdge servers, switches and iSCSI storage arrays.

### Systems Administrator

#### Romagnolo and Cambio LLP

01/2005 - 01/2007

New York, NY

##### Tasks/Achievements

- Maintained 2 file servers using Microsoft Windows Server 2003 with the DFS feature active.
- Configured 2 servers to host Active Directory on primary and secondary domain controllers. Implemented group policies and OUs for users within AD.
- Management of the LANs at two remote offices, and linking them into our internal network through VPN connections, as well as linking the domains at remote offices into a higher active directory forest.

### Information Technology Specialist

#### United States Army

06/2000 - 10/2004

Fort Jackson, SC

##### Tasks/Achievements

- Possessed the Military Occupational Specialty of identifying workstation and network vulnerabilities, as well as resolution coordination.
- Installed, configured, and monitored local and wide-area networks, hardware, and software, compiling, entering, and processing information for combat service readiness and logistical communication.
- Provided user and network administration services such as network hardening, user security, disaster recovery planning, and information & application security.

## TECHNICAL SKILLS

### Operating Systems

Windows 11, 10, 7, Server 2003 r2, Server 2008 r2, 2012 r2, 2016, 2019, 2022, macOS, iOS, Android, Kali Linux, Ubuntu

### Hardware

Palo Alto firewall, Juniper firewall, Cisco firewall & switches, Netgear switches, Laptops and Workstations (Dell, HP, Lenovo, Apple), Rackmount servers and storage arrays, RAID configuration on NAS and SAN.

### Software & Services

AWS, Azure, Linode, Microsoft365, SQL Server, EFS Encryption, VMware, Rumba, Citrix Client, Windows Terminal Server, RDP, Active Directory, Group Policy, DFS, IIS Server, Symantec Endpoint Protection, NetSupport Manager.

### Network Protocols

LAN/WAN, TCP/IP, DNS, DFS, DHCP, POP3, SMTP, SFTP, TELNET, VPN, ICMP, NAT, IPSEC, PPTP, AES.

## ORGANIZATIONS

Information Systems Security Association - (ISSA)  
(2010 - Present)

Cloud Security Alliance (CSA) (2011 - Present)

Computer Science Teachers Association (CSTA)  
(2015 - Present)