



Saint Martin's
UNIVERSITY

W A S H I N G T O N
VETS2TECH

Veterans ★ Transitioning service members ★ Military spouses

Server and Cloud Application
Weekly Training Plan

Agenda

- Program Notes
- Server and Cloud Application Pathway learning objectives
- Professional Development overview
- Weekly Breakdown (weeks 1-16)
 - Session 08
 - Session 09
- Questions
- Conclusion

Program Notes

- **Current pathway prerequisites:**
 - College-level Algebra
 - Behavioral Interview
- **Classroom Instruction:**
 - Academics:
 - Students will be in class Monday through Friday from 9:00 am to 5:00 pm
 - Students will attend three classes, twice a week for 2 ½ hours each class
 - During unstructured time, students will have the opportunity to work on classwork, work on group projects, or study for certification exams
- **Professional Development:**
 - Career Development Managers will teach Professional Development classes twice a week and focus on:
 - Resumes
 - Cover Letters
 - Virtual Presence (LinkedIn, Social Media, etc.)
 - Job Search
 - Mock Interviews



Pre-Requisites

College Algebra transcripts
or
Math placement test available online

Outcomes

- Analyze network architecture, standards, security & protocols
- Deploy Linux/Win OS apps
- Architect cloud solutions
- Develop skills in scripting & automation

Certification Opportunities*



* Two certification exam vouchers are included in lab fees. WAV2T reserves the right to change which certifications are included under the voucher program.

CSC 331: Windows Server Configuration and Management (IAM/Linux Admin LDAP/Active Directory)

- Install/config. domain controllers, AD CS, AD FS, & AD RMS
- Create/manage AD users, groups, OUs, & computers
- Configure service authentication & account policies
- Maintain Active Directory
- Understand LDAP and IAM with Linux Administration
- Configure AD in a complex enterprise environment
- Create and manage GPOs
- Config Group Policy processing, settings & preferences
- Manage certificates & Implement WAP

CSC 160: Computing Technologies (Introduction to Computer Science)

- Perform Operations using Data Type and Operators
- Control Flow with Decisions and Loops
- Perform Input and Output Operations
- Document and Structure Code
- Perform Troubleshooting and Error Handling
- Perform Operations using Modules and Tools
- Modern Application Development with Python on AWS Specialization

CSC 330: Networking and Server Fundamentals

CompTIA Network+
Exam Preparation

- Introduce the OSI Model
- Understanding; LAN, Wired & Wireless Networks, IP, & WAN
- Defining Network Infrastructure & security
- Install and configure DNS servers
- Create and configure DNS zones & records
- Install, configure and manage DHCP
- Implement: Network VPN connectivity solution
- IPv4/IPv6 addressing solutions, VLSM, subnetting
- Develop high-performance network solutions
- Identify scenarios/requirements for implementing SDN

CSC 235: Introduction to Linux

CompTIA Linux+
Exam Preparation

- Provision and maintain Linux Infrastructure
- Gain an understanding of Linux commands and architecture
- Work at the command line to install, update, and configure system components
- Learn standards and management for user and file permissions
- Understand fundamentals of system security, performance, and maintenance
- Explore the implementation of tools for automating these practices

CSC 332: Configuring Advanced Windows Server Services (Linux/Win 2022)

- Use administrative techniques and tools in WS2022 and Linux
- Implement identity Services
- Manage network infrastructure services
- Configure file servers and storage
- Manage VMs using Hyper-V virtualization & containers
- Apply security features to protect critical resources.
- Configure Remote Desktop Services
- Implement remote access and web services
- Implement service/performance monitoring & apply troubleshooting

CSC 456: Configuring and Deploying Cloud Technologies

AWS Cloud
Practitioner Exam
Preparation

- Create and scale virtual machines
- Implement storage solutions
- Configure virtual networking
- Back up & share data using Data Services
- Connect to the cloud & on-premises sites
- AWS CDK
- AWS Identity and Access Management
- Monitor infrastructure
- Manage network traffic
- Secure identities



Professional Development

- The Career Development Managers (CDM) for the Washington Veterans to Tech (WaV2T) program are responsible for the job placement function for a cohort of WaV2T students.
- Our CDMs also maintain relationships with employers, and graduates of the WaV2T program, managing the social network of this specialized community.



Resumes

- Translating military experience
- Personal assessment
- Target Resumes



Cover Letters

- Personalization
- Selling yourself



Virtual Presence

- LinkedIn
- Personal branding
- Social Media



Job Search

- Target job market
- Hiring managers
- Recruiters



Interview skills

- Research Company
- Mock Interviews
- Negotiations
- Job offers

Week 1



Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:00 AM	Orientation				
8:30 AM		CSC 330: Network and Server Fundamentals	Professional Development	CSC 330: Network and Server Fundamentals	Unstructured Time
9:00 AM					
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1:00 PM	Orientation	CSC 160: Computing Technologies (Introduction to Computer Science)	CSC 331: Windows Server Configuration and Management	CSC 160: Computing Technologies (Introduction to Computer Science)	Unstructured Time
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Learning Outcomes

- **CSC 160**
 - Course overview and understanding of expectations of the course
 - Install the required software
 - Understand binary and hexadecimal systems
 - Intro to Python, Django, Databases, and PHP
 - Complete simple exercises
- **CSC 330**
 - Course overview and understanding of expectations of the course
 - Networking Basics
 - OSI & TCP reference models
 - Create Cisco Network Academy Account
 - Packet Tracer lab environments
 - Test Out LabSim Activities
- **CSC 331**
 - Course overview and understanding of expectations of the course
 - Create Microsoft Azure Accounts
 - Virtual Machines (2019 VM, Core, and Desktop Experience)
 - IT Experience Assignments
 - Create VMs using Virtual Box

Professional Development

- Orientation, administrative tasks, teams, and calendar overview

Week 2

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM		CSC 330: Network and Server Fundamentals		CSC 330: Network and Server Fundamentals	Unstructured Time
9:00 AM	Professional Development		Professional Development		
9:30 AM					
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1:00 PM	CSC 331: Windows Server Configuration and Management	CSC 160: Computing Technologies (Introduction to Computer Science)	CSC 331: Windows Server Configuration and Management	CSC 160: Computing Technologies (Introduction to Computer Science)	Unstructured Time
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Learning Outcomes

- **CSC 160**
 - Introductions to zyBooks
 - Introduction to programming & Python 3
 - Variables and expressions
 - Binary and hexadecimal labs and assignments
- **CSC 330**
 - Network cabling and hardware devices
 - Network cabling discussion
 - Research paper #1
 - LabSim Activities
- **CSC 331**
 - Overview of advanced Active Directory (AD), and Directory Services (DS) deployments
 - Deploying a distributed AD/DS environment
 - Configuring AD/DS trusts
 - Lab 2 and Quiz#1

Professional Development

- Your focus determines your reality
- Guest Speaker

Week 3

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM		CSC 330: Network and Server Fundamentals		CSC 330: Network and Server Fundamentals	Unstructured Time
9:00 AM	Professional Development		Professional Development		
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1:00 PM	CSC 331: Windows Server Configuration and Management	CSC 160: Computing Technologies (Introduction to Computer Science)	CSC 331: Windows Server Configuration and Management	CSC 160: Computing Technologies (Introduction to Computer Science)	Unstructured Time
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Learning Outcomes

- **CSC 160**
 - Python:
 - Types
 - Branching
 - Execution
 - Chapter 3/4 labs & assignments
- **CSC 330**
 - Networking addresses and services
 - IPV4, DHCP, SMTP, IMAP/POP, HTTP
 - Transport Layer (TCP/UDP)
 - Network troubleshooting
 - Cisco packet tracer label
 - TestOut and LabSim
- **CSC 331**
 - Introduction to Linux ADP
 - Create AWS accounts
 - Group project discussion
 - Quiz #2

Professional Development

- Survey your professional environment (1)
- Survey your professional environment (2)

Week 4

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM		CSC 330: Network and Server Fundamentals		CSC 330: Network and Server Fundamentals	Unstructured Time
9:00 AM	Professional Development		Professional Development		
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1:00 PM	CSC 331: Windows Server Configuration and Management	CSC 160: Computing Technologies (Introduction to Computer Science)	CSC 331: Windows Server Configuration and Management	CSC 160: Computing Technologies (Introduction to Computer Science)	Unstructured Time
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Learning Outcomes

- **CSC 160**
 - Loops
 - Iterations in Python
 - Group project discussion (HTML, Python & Django)
 - Chapter 5 labs and assignments
- **CSC 330**
 - Networking Addressing and Services
 - DNS, NTP, IPv6, Troubleshooting DNS & IP Communications, and troubleshooting IP Configurations
 - TestOut and LabSim activities
- **CSC 331**
 - Implementing Group Policy
 - Implementing and administering GPOs
 - Group Policy scope and Group Policy processing
 - Troubleshoot GPOs
 - Managing User settings with Group Policy
 - Lab 3 and Quiz #3

Professional Development

- Constructing your Resume/Cover Letter
- Student Bio/Resume construction
- Guest Speaker

Week 5

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM		CSC 330: Network and Server Fundamentals		CSC 330: Network and Server Fundamentals	Unstructured Time
9:00 AM	Professional Development		Professional Development		
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1:00 PM	CSC 331: Windows Server Configuration and Management	CSC 160: Computing Technologies (Introduction to Computer Science)	CSC 331: Windows Server Configuration and Management	CSC 160: Computing Technologies (Introduction to Computer Science)	Unstructured Time
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Learning Outcomes

- **CSC 160**
 - Functions
 - Python with strings
 - Temperature conversion assignment
 - Chapter 6 labs & assignments
- **CSC 330**
 - Ethernet/Wiring Standards
 - Research Paper #2
 - TestOut and LabSim activities
- **CSC 331**
 - Securing Active Directory/Domain Services
 - Implementing AD/DS synchronization with Microsoft Azure AD
 - Lab 4 and Quiz #4

Professional Development

- Define your target market and personal marketing plan
- Professional Development Roadmap/Milestones
- Review student bios and base resumes

Week 6

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM		CSC 330: Network and Server Fundamentals		CSC 330: Network and Server Fundamentals	Unstructured Time
9:00 AM	Professional Development		Professional Development		
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1:00 PM	CSC 331: Windows Server Configuration and Management	CSC 160: Computing Technologies (Introduction to Computer Science)	CSC 331: Windows Server Configuration and Management	CSC 160: Computing Technologies (Introduction to Computer Science)	Unstructured Time
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Learning Outcomes

- **CSC 160**
 - Strings
 - Using Files with Python
 - Chapter 7 labs and assignments
- **CSC 330**
 - Firewalls and intrusion detection
 - TestOut and LabSim activities
- **CSC 331**
 - Deploying Certificate Authorities (CA)
 - Administering Cas
 - Troubleshooting and maintaining Cas
 - Deploying and managing certificates
 - Lab 5 and Quiz #5

Professional Development

- Gather marketplace information & other methods of search
- Hiring Managers
- Guest Speaker
- Start Job Tracker

Week 7

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM		CSC 330: Network and Server Fundamentals		CSC 330: Network and Server Fundamentals	Unstructured Time
9:00 AM	Professional Development		Professional Development		
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1:00 PM	CSC 331: Windows Server Configuration and Management	CSC 160: Computing Technologies (Introduction to Computer Science)	CSC 331: Windows Server Configuration and Management	CSC 160: Computing Technologies (Introduction to Computer Science)	Unstructured Time
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Learning Outcomes

- **CSC 160**
 - Lists and dictionaries
 - Using regular expressions
 - Chapter 8 assignment and labs
- **CSC 330**
 - Cisco Packet Tracker Lab #2
 - Research Paper #3
- **CSC 331**
 - Implementing and administering AD/FS
 - Implementing and administering AD/RMS
 - Monitoring, managing, and recovering AD/DS
 - Lab 6 and Quiz #6

Professional Development

- LinkedIn and your virtual presence
- LinkedIn from a recruiter perspective
- Elevator pitches and Interviewing

Week 8

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM		CSC 330: Network and Server Fundamentals		CSC 330: Network and Server Fundamentals	Unstructured Time
9:00 AM	Professional Development		Professional Development		
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1:00 PM	CSC 331: Windows Server Configuration and Management	CSC 160: Computing Technologies (Introduction to Computer Science)	CSC 331: Windows Server Configuration and Management	CSC 160: Computing Technologies (Introduction to Computer Science)	Unstructured Time
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Learning Outcomes

- **CSC 160**
 - Week 8 discussion
 - Group project demonstrations
 - Extra Credit
- **CSC 330**
 - Cellular Technologies
 - CompTIA Network+ exam review
 - Group project demonstrations
- **CSC 331**
 - Week 8 Discussion
 - Group Project Demonstrations

Professional Development

- Financial Health and assessing your finances
- Transitioning to a new position
- Guest Speaker

Transition from session 08 to 09

Notes:

- Students must pass Session 08 to move on to Session 09
- Mid-semester report (8 weeks in) tracks students' grades and certifications earned

Week 9

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 235: Linux Administration	CSC 456: Configuring and Deploying Cloud Technologies	CSC 235: Linux Administration	CSC 456: Configuring and Deploying Cloud Technologies	Unstructured Time
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1:00 PM	CSC 332: Configuring Advanced Windows Server Services (Linux/Win 2022)	Professional Development	CSC 332: Configuring Advanced Windows Server Services (Linux/Win 2022)	Professional Development	Unstructured Time
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Learning Outcomes

- **CSC 235**
 - Course overview and understanding of expectations of the course
 - Linux Introduction
 - Installation of Virtual Box & Ubuntu
 - Basic Linux commands
 - Labs and Assignments
- **CSC 332**
 - Course overview and understanding of expectations of the course
 - Installing and migrating Windows servers
 - Configuring local storage on Windows servers
 - Lab 1 and Quiz 1
- **CSC 456**
 - Course overview and understanding of expectations of the course
 - Introduction to cloud architecting

Professional Development

- Classes:
 - Student exam preparation & testing
 - Student Mock Interviews
 - Job Trackers
 - One on One interviews

Week 10

Time	Monday	Tuesday	Wednesday	Thursday	Friday		
8:30 AM	CSC 235: Linux Administration	CSC 456: Configuring and Deploying Cloud Technologies	CSC 235: Linux Administration	CSC 456: Configuring and Deploying Cloud Technologies	Unstructured Time		
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1:00 PM	CSC 332: Configuring Advanced Windows Server Services (Linux/Win 2022)	Professional Development	CSC 332: Configuring Advanced Windows Server Services (Linux/Win 2022)	Professional Development	Unstructured Time		
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Learning Outcomes

- **CSC 235**
 - Installation and Localization
 - Using Linux
 - TestOut and LabSim activities
- **CSC 332**
 - Enterprise storage solutions with Windows Server
 - Lab 1 and Quiz 1
- **CSC 456**
 - Virtual machines and cloud storage
 - Lab 1 and Quiz 1

Professional Development

- Classes:
 - Student exam preparation & testing
 - Student Mock Interviews
 - Job Trackers
 - One on One interviews
 - Guest Speaker

Week 11

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 235: Linux Administration	CSC 456: Configuring and Deploying Cloud Technologies	CSC 235: Linux Administration	CSC 456: Configuring and Deploying Cloud Technologies	Unstructured Time
9:00 AM					
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1:00 PM	CSC 332: Configuring Advanced Windows Server Services (Linux/Win 2022)	Professional Development	CSC 332: Configuring Advanced Windows Server Services (Linux/Win 2022)	Professional Development	Unstructured Time
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Learning Outcomes

- **CSC 235**
 - Graphical User Interfaces and Desktops
 - Boot and Shutdown
 - TestOut and LabSim activities
- **CSC 332**
 - Storage spaces and data duplication
 - Hyper-V and Virtual machines with Windows Server
 - Lab 2 and Quiz 2
- **CSC 456**
 - Adding a database layer
 - Networking environment
 - Group presentation #1 due (AWS vs Azure comparison)
 - Lab 2 and Quiz 2

Professional Development

- Classes:
 - Student exam preparation & testing
 - Student Mock Interviews
 - Job Trackers
 - One on One interviews

Week 12

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 235: Linux Administration	CSC 456: Configuring and Deploying Cloud Technologies	CSC 235: Linux Administration	CSC 456: Configuring and Deploying Cloud Technologies	Unstructured Time
9:00 AM					
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1:00 PM	CSC 332: Configuring Advanced Windows Server Services (Linux/Win 2022)	Professional Development	CSC 332: Configuring Advanced Windows Server Services (Linux/Win 2022)	Professional Development	Unstructured Time
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Learning Outcomes

- **CSC 235**
 - Software Installation
 - Users and Groups
 - Disk and File System Management
 - TestOut and LabSim activities
- **CSC 332**
 - High availability and disaster recovery with Windows server
 - Network load balancing Windows server
 - Lab 3 and Quiz 3
- **CSC 456**
 - Connecting Networks
 - Securing user and application access
 - Lab 3 and Quiz 3

Professional Development

- Classes:
 - Student exam preparation & testing
 - Student Mock Interviews
 - Job Trackers
 - One on One interviews
 - Guest Speaker

Week 13

Time	Monday	Tuesday	Wednesday	Thursday	Friday		
8:30 AM	CSC 235: Linux Administration	CSC 456: Configuring and Deploying Cloud Technologies	CSC 235: Linux Administration	CSC 456: Configuring and Deploying Cloud Technologies	Unstructured Time		
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1:00 PM	CSC 332: Configuring Advanced Windows Server Services (Linux/Win 2022)	Professional Development	CSC 332: Configuring Advanced Windows Server Services (Linux/Win 2022)	Professional Development	Unstructured Time		
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Learning Outcomes

- **CSC 235**
 - Hardware installation
 - Processes and System Services
 - System monitoring
 - TestOut and LabSim activities
- **CSC 332**
 - Creating and managing servers
 - Deploying Images
 - Lab 4 and Quiz 4
- **CSC 456**
 - Implementing Elasticity, High Availability, and Monitoring
 - Automating your Architecture
 - Lab 4 and Quiz 4

Professional Development

- Classes:
 - Student exam preparation & testing
 - Student Mock Interviews
 - Job Trackers
 - One on One interviews

Week 14

Time	Monday	Tuesday	Wednesday	Thursday	Friday		
8:30 AM	CSC 235: Linux Administration	CSC 456: Configuring and Deploying Cloud Technologies	CSC 235: Linux Administration	CSC 456: Configuring and Deploying Cloud Technologies	Unstructured Time		
9:00 AM							
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1:00 PM	CSC 332: Configuring Advanced Windows Server Services (Linux/Win 2022)	Professional Development	CSC 332: Configuring Advanced Windows Server Services (Linux/Win 2022)	Professional Development	Unstructured Time		
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Learning Outcomes

- **CSC 235**
 - Networking
 - Cloud, Containers, and Virtualization
 - TestOut and LabSim activities
- **CSC 332**
 - Failover clustering with Windows server
 - Failover clustering with Hyper-V in Windows server
 - Lab 5 and Quiz 5
- **CSC 456**
 - Caching content
 - Building decoupled architecture
 - Group Presentation #2 – Open Source Software (OSS) vs Commercial off the shelf (COTS)
 - Lab 5 and Quiz 5

Professional Development

- Classes:
 - Student exam preparation & testing
 - Student Mock Interviews
 - Job Trackers
 - One on One interviews
 - Guest Speaker

Week 15

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 235: Linux Administration	CSC 456: Configuring and Deploying Cloud Technologies	CSC 235: Linux Administration	CSC 456: Configuring and Deploying Cloud Technologies	Unstructured Time
9:00 AM					
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1:00 PM	CSC 332: Configuring Advanced Windows Server Services (Linux/Win 2022)	Professional Development	CSC 332: Configuring Advanced Windows Server Services (Linux/Win 2022)	Professional Development	Unstructured Time
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Learning Outcomes

- **CSC 235**
 - Scripting and Automation
 - Security
 - TestOut and LabSim activities
- **CSC 332**
 - Monitoring and maintaining Virtual machines on Windows Server
 - Lab 6 and Quiz 6
- **CSC 456**
 - Building microservices and serverless architectures
 - Planning for disaster
 - Lab 6 and Quiz 6

Professional Development

- Classes:
 - Student exam preparation & testing
 - Student Mock Interviews
 - Job Trackers
 - One on One interviews

Week 16

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 235: Linux Administration	CSC 456: Configuring and Deploying Cloud Technologies	CSC 235: Linux Administration	CSC 456: Configuring and Deploying Cloud Technologies	Unstructured Time
9:00 AM					
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1:00 PM	CSC 332: Configuring Advanced Windows Server Services (Linux/Win 2022)	Professional Development	CSC 332: Configuring Advanced Windows Server Services (Linux/Win 2022)	Professional Development	Unstructured Time
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Learning Outcomes

- **CSC 235**
 - Final exam
 - Project demo
 - CompTIA Linux+ practice exams (TestOut)
- **CSC 332**
 - Virtualization and Containers
 - Course Reflection
- **CSC 456**
 - Bridge to certification
 - Group project presentation

Professional Development

- Classes:
 - Student exam preparation & testing
 - Student Mock Interviews
 - Job Trackers
 - One on One interviews
 - Graduation

Questions





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