

W A S H I N G T O N VETS2TECH

Veterans \star Transitioning service members \star Military spouses

Cloud Application Development Weekly Training Plan

Agenda

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

Program Notes



- Current pathway prerequisites: ٠
 - College-level Algebra Behavioral Interview

Classroom Instruction:

- Academics: ٠
 - Students will be in class Monday through Friday from 9:00 am to 5:00 pm ٠
 - Students will attend three classes, twice a week for $2 \frac{1}{2}$ hours each class ٠
 - During unstructured time, students will have the opportunity to work on classwork, work ٠ on group projects, or study for certification exams

- Career Development Managers will teach Professional Development classes twice a week ٠ and focus on:
 - Resumes
 - **Cover Letters**
 - Virtual Presence (LinkedIn, Social Media, etc.)
 - Job Search
 - Mock Interviews



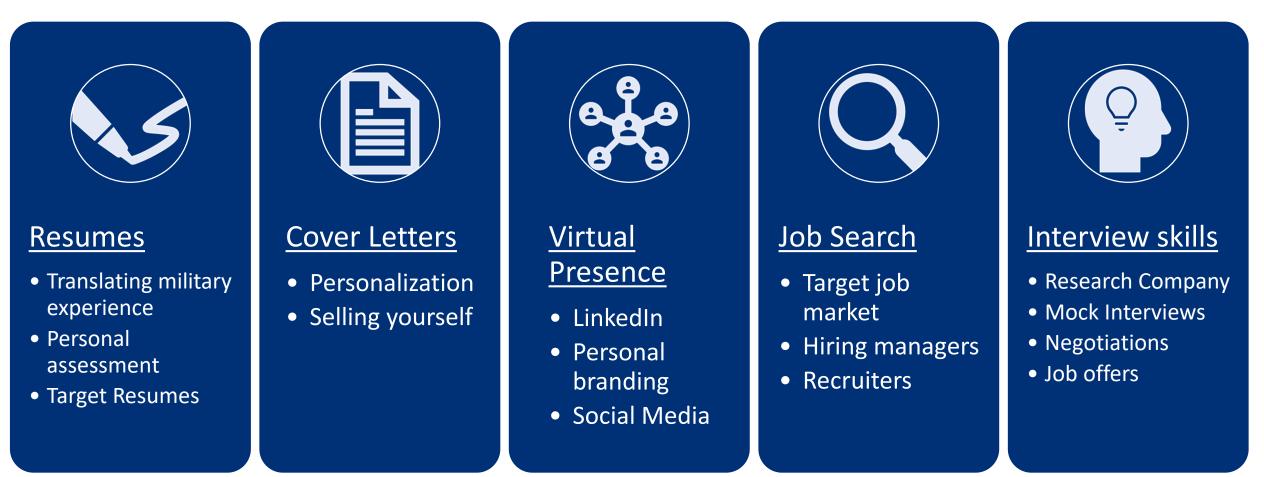
VETS2TECH Cloud Application Development (CAD) Learning Objectives

October 3, 2023

Pre-Requisites	CSC 160:	 Perform operations using data type and operators Control flow with decisions and loops 	CSC 205: Cloud	 Introduction to Java syntax and variables Define classes and instantiate objects. Use of fields and
College Algebra transcripts or Math placement test available online	Computing Technologies (Python/ Introduction To Programing)	 Perform input and output operations Document and structure code Perform troubleshooting and error handling Perform operations using modules and tools Current application development with Python on AWS specialization Learn to troubleshoot software problems; students provide peer feedback on code revisions 	Application Development (Java/Object Oriented Programming)	 Bething classes and instantiate objects, oscion nervs and methods. Use instance, static, and overloaded methods Introduction to access modifiers and constructors Understand variable scope, encapsulation, immutable objects, class inheritance (subclasses and super classes) Understand four pillars of object-oriented programming, abstraction, encapsulation, inheritance and polymorphism Define and use enumerations. Understand reference vs value type. Understand object vs reference type
 Outcomes Program using Object Oriented languages Apply Software Development Lifecycle (SDL) Develop web applications 	CSC 235: Introduction to Linux (Open-	 Open-source software development tools Working from CLI (command line interface) Filesystem layout, partitions Monitoring utilities Linux tools for developers Building packages out of software in Linux Using Git for distributed development 		 Understand exception handling, create custom exceptions, work with arrays, and collections (including list, set, map and deque collections). Introduction to generics. Read and write file data using I/O streams. lambda expressions Composing code using Java Spring Framework
 Design & build databases Certification 	Source Dev)	 Make changes in repositories; root and user Installing and securing NoSQL on Linux distributions Control changes made by other individuals Discover errors in your work and go back to earlier 	CSC 295: Introduction to	 Analyze and compare code using the asymptotic analysis (Big-O) Implement sequential and interval search algorithms Implement sorting algorithms, such as: bubble sort,
Opportunities*	CompTIA Linux+ Exam Preparation	project states Manage making commits, diffs, merges, rebases 	Algorithms & Data Structures	 selection sort, insertion sort, merge sort, and quicksort Implement data structures such as: array lists. linked lists, stack, queues, and binary search trees graphs Make use of generic programming Acquire skillsets on troubleshooting code revisions
Linux+	CSC 230: Introduction to Web Development (HTML5, CSS3 and JavaScript	 Describe HTML5 features & create/style HTML5 pages Add interactivity to an HTML5 page using JavaScript Create HTML5 forms with input types/validate user input Send/receive data using XMLHTTP Request/Fetch API Build web-based application with NoSQL backend Create well-structured JavaScript code Identify and use current JavaScript version compatible with web browsers Use HTML5 APIs Create Web applications that support offline operations Style HTML5 pages using CSS3, vector graphics, and animation Use web sockets to send data to web apps & servers Use WebPack to package web apps for production 	CSC 457: Developing Cloud Solutions (in AWS)AWS Certified Developer Associate Exam Preparation	 Develop & implement AWS compute solutions using VMs, batch jobs, and by using batch services Create containerized solutions using Docker and Kubernetes Implement AWS functions, storage solutions, relational and NoSQL DB solutions Implement AWS security using authentication, access control & secure data solutions Program a solution to support scalability of apps & services Implement AWS monitoring & logging solutions Develop app service logic apps, integrate AWS search within solutions, and add-in third-party services Understand event-based and message-based solutions



- 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.







Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:00 AM					
8:30 AM		CSC 230:	CSC 160:	CSC 230:	
9:00 AM		Introduction to Web	Computing Technologies	Introduction to Web	
9:30 AM	WaV2T Orientation	Development (HTML5, CSS3	(Python/Intro duction to	Development (HTML5, CSS3	Unstructured
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- CSC 160
 - Understand expectations of the course
 - Create user accounts
 - Install required software
 - Understand binary and hex
 - Intro to Python, Django, Databases and PHP
 - Complete simple exercises

• CSC 235

- Understand expectations of the course
- Install required software (Oracle Box/Ubuntu)
- OS overview & history Unix/Linux
- Basic Linux file management
- Understand basic commands such as pwd and ls

• CSC 230

- Understand expectations of the course
- Install required software
- Basics of HTML and CSS
- Overview of industry standard tools & environments e.g., AWS framework

Professional Development

• Orientation, administrative tasks, teams and calendar overview





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- CSC 160
 - Understand programming needs in administration
 - Understand database fundamentals
 - Understand Python variables, expressions and statements
 - Apply concepts learned, completing lab exercises

• CSC 235

- Understanding the Linux shell
- Understanding Linux installation & localization
- Demonstrate knowledge of shell commands using CLI through assigned lab exercises

• CSC 230

- Create and style web pages using HTML5 and CSS
- Understand tools used to create HTML and CSS
- IDs, Attributes, Forms

- Classes:
 - Amazon and AWS overview
 - Your focus determines your reality
 - SDE guest speaker from Amazon





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• CSC 160

Week 3

- Understand statements interpretation and execution; mathematical operators; arrays, conditional and looping structures
- Understand functions and how parameter are passed in functions
- Automate data control tasks such as sorting and filtering to manage & manipulate data

• CSC 235

- Understand system services; boot and shutdown
- Explore Linux GUI, Desktops and Accessibility
- Classroom exercises working with GRUB

• CSC 230

- Understand React & React Architecture
- Explore React Library identify UIs to use for project
- Understand how to create a React applications

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





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- CSC 160
 - Use IDE/Text Editor
 - Analyze simple code using debugging tools
 - Apply concepts to write simple programs

• CSC 235

- Understanding system processes and monitoring
- Analyzing disk files & memory management
- File system maintenance

• CSC 230

- Creating Objects and Methods using JavaScript
- Creating Interactive pages by using HTML5 APIs
- Develop controllers

- Classes:
 - Constructing your Resume/Cover letter
 - Student Bio and Resume construction
 - AWS guest speaker





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- CSC 160
 - Understand objects and classes in Python
 - Understand and apply class & static variable and methods
 - Introduction to peer code reviews

• CSC 235

- System processes and monitoring
- Memory management
- Demonstrate Bash Shell environment
- Demonstrate Bash Shell scripting

• CSC 230

- Spring Boot Overview Basic Annotations, Dependency Injection.
- String Boot Model View Controller Structure

- Classes:
 - Define your target market and personal marketing plan
 - Professional Development roadmap and milestones
 - Review resumes and student bios





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- CSC 160
 - Database creation and integration with web-based application
 - Create a basic web pages integrating database

• CSC 235

- User and group management
- Understanding Octal rwx & permission setting and changes; chmod; umask

• CSC 230

- Developing models in Spring MVC
- Developing Controllers, Views in MVC
- React design principles

Professional Development

Classes:

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- Linkedin and your Virtual presence
- AWS guest speaker





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- CSC 160
 - Using Git: understand version control systems– Distributed VCS, Branch, Merge and Diff
 - Set up GitHub; Fork and Pull requests for simple group project

• CSC 235

- Bash scripting syntax; write simple scripts
- Write basic scripts, change permissions and execute. Use for loop to list files in a directory

• CSC 230

- Authentications
- Rest Controller Overview Get, Post, Delete, Put,
- Spring security

- Classes:
 - Gather marketplace information
 - Hiring managers and recruiters
 - Elevator pitches



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• CSC 160

Week 8

- PHP integration with HTML / sending information to a database
- Present project, demonstrate program utilizing concepts learned. Compile and run program do a walk through of program and integrated tools

• CSC 235

- Installing utilities and extensions in Linux
- Using tree, date, and other built-in tools useful for system admin.
- Set up install and set up local test servers such as Vagrant

• CSC 230

- Understand Unit Testing
- ReactJS testing framework & libraries
- Group project presentation & documentation, demonstrating of Full-stack components

- Classes:
 - Financial health & Realtor special guest
 - Transitioning into a new position

Transition from session 08 to 09



Notes:

- Students must pass Session 08 to move on to Session 09
- Mid-semester report, tracking students grades and certifications earned
- Setup interview schedule for students who demonstrate ability to go to FTE roles



Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 AM	CSC 205:	CSC 457:	CSC 205:	CSC 457:	
9:00 AM	Cloud Application	Developing Cloud	Cloud Application	Developing Cloud	
9:30 AM	Development	Solutions (in AWS)	Development	Solutions (in AWS)	Unstructured
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1:00 PM	CSC 295:	Professional	CSC 295:	Professional	
1:30 PM	Introduction to Algorithms	Development	Introduction to Algorithms	Development	
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• CSC 205

Week 9

- Understand expectations of the course
- Overview of SDL and stakeholders
- Introduction to AWS API driven applications

• CSC 295

- Understand expectations of the course & resources
- Understand the concept of data structure
- Comprehend the techniques of algorithm analysis, such as the best case, worst case, and average case scenario
- Understand how to apply algorithm analysis techniques to various algorithms

• CSC 457

- Understand expectations of the course
- Overview AWS cloud global infrastructure
- Understand working definitions of AWS cloud

- Classes:
 - Exam preparation & testing
 - Student Interview Practice
 - Job Trackers
 - One on One interviews



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9:00 AM	Cloud Application	Developing Cloud	Cloud Application	Developing Cloud	
9:30 AM	Development	Solutions (in AWS)	Development	Solutions (in AWS)	Unstructured
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Learning Outcomes

- CSC 205
 - Understand AGILE software engineering, SCRUM
 - Introduction to requirements analysis, features, scenarios and stories

• CSC 295

- Comprehend the working process of sequential search and binary search
- Apply sequential search and binary search to find the target element in Java

• CSC 457

- Understand microarchitecture and microservices
- Understand AWS cloud storage

- Classes:
 - Exam preparation & testing
 - Student Interview Practice
 - Job Trackers
 - One on One interviews





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- CSC 205
 - Requirements analysis (interviews/surveys)
 - Develop CRC models (or UML)

• CSC 295

- Comprehend the working process of bubble sort, selection sort, insertion sort, merge sort, quicksort and radix
- Implement bubble sort, selection sort, insertion sort, merge sort, and quicksort in Java

• CSC 457

- Describe benefits of Elastic Block Store, Simple Storage Services and the Elastic File System
- Apply concepts to identify benefits of Relational Database Service and DynamoDB

- Classes:
 - Exam preparation & testing
 - Student Interview Practice
 - Job Trackers
 - One on One interviews



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Learning Outcomes

- CSC 205
 - Wireframe project
 - Scope software & hardware requirements
 - Understand RESTful service

• CSC 295

- Understand lists, stack, and queues
- Implement lists, stack, and queues in Java

• CSC 457

- Understand the advantages and disadvantages of multiinstance databases
- Mini project, implementing a database & business requirements

- Classes:
 - Exam preparation & testing
 - Student Interview Practice
 - Job Trackers
 - AWS Interviews
 - One on One interviews



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Learning Outcomes

- CSC 205
 - Understand security vulnerabilities/data protection
 - Understand IEEE/ACM ethics guidelines

• CSC 295

- Understand the working process of merge sort, heap sort, and quick sort using recursion
- Implement these sorts in Java

• CSC 457

- Understand Identity & Access Management (IAM)
- Understand securing the root account
- IAM Policies

- Classes:
 - Exam preparation & testing
 - Student Interview Practice
 - Job Trackers
 - AWS Interviews
 - One on One interviews



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Learning Outcomes

- CSC 205
 - Design and develop a prototype
 - Understand test driven development

• CSC 295

- Understand binary trees and the working process of building a binary tree
- Implement binary trees and binary search trees in Java

• CSC 457

- Implement monitoring and logging solutions
- Learn about event-based and message-based solutions

- Classes:
 - Exam preparation & testing
 - Student Interview Practice
 - Job Trackers
 - AWS Interviews
 - One on One interviews



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Learning Outcomes

- CSC 205
 - Connect to APIs, external libraries
 - Develop prototype (writing/implementing code)
 - Testing: functional, test automation, black box

CSC 295

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- Understand the concept of graphs, directed, undirected, weighted and shortest path
- Understand how to represent graphs
- Implement graphs and graph algorithms in Java

CSC 457

- Understand ML and data science in AWS cloud services.
- Identify specific industry problems that are supported by cloud services

- Classes:
 - Exam preparation & testing
 - Student Interview Practice
 - Job Trackers
 - AWS Interviews
 - One on One interviews



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Learning Outcomes

- CSC 205
 - Security testing and peer code reviews & code management
 - Technical report & present product

• CSC 295

- Overview of ML algorithms used in data science
- Introduction to supervised learning, unsupervised learning and reinforcement learning algorithms

• CSC 457

- Present group project based on identified AWS services and technical requirements
- Present documentation outlining technical requirements from an AWS application including networking, security services and the global infrastructure

- Classes:
 - Exam preparation & testing
 - Student Interview Practice
 - Job Trackers
 - AWS Interviews
 - One on One interviews

Questions



W A S H I N G T O N VETS2TECH