**Michael Charara**

*It Support Technician/Microsoft Azure Certified Administrator*

 **Professional Skills**

Mr. Charara is currently working on his second Master’s Degree in Information Management Systems. He has been working the past year as a Network Administrator. He has completed several certifications: Microsoft Certified Azure Administrator, AZ-104, Microsoft Certified Azure Fundamentals, AZ-900, LFS250: Kubernetes and Cloud Native Essentials and is currently working on getting certified in Kubernetes and Cloud Native Associate (KCNA).

**Professional Experience**

**United Wholesale Mortgage (Information Technology) June 2021 – Present**

*Network Administrator*

* Developed and maintained the network primarily using products from Cisco.
* Created and configured the network, ensured network security, and troubleshot issues.
* Proficient and capable of upgrading/replacing hardware and software systems, present network reports, train end-users, resolve technical issues, and automate tasks.

**Massachusetts General Hospital**  **July 2016 – April 2018**

*Research Assistant*

* Conducted medical research in nephrology, more specifically Autosomal Dominant Polycystic Kidney Disease.
* Research included conducting protein quantifications, gel electrophoresis, western blots, buffer preparations, autoclaving, cell cultures, scanning films/Image J, cryopreservation of cells, cryostoring cells, and casting polyacrylamide gels.
* Reagent solutions included bicinchoninic acid solutions and copper (ll) sulfate solutions.

**East Lake Foods Inc. January 2014 – April 2020**

*Human Resource Manager & Back End Web Developer*

* Oversaw recruitment, development, and training for more than 300 employees across 12 Kentucky Fried Chicken franchises and 6 Tim Hortons franchises.
* Managed website HTML/CSS alongside form submission data.

**Work Projects**

***Configuration Compliance for Ansible Automation,*** *Cisco* [*https://www.netdevmike.com/project/configuration-compliance-for-ansible-automation*](https://www.netdevmike.com/project/configuration-compliance-for-ansible-automation)

**United Wholesale Mortgage, September 2021 – Present**

* + Leveraged SolarWinds Compliance Policy Reports to standardize configurations across the Network.
  + Worked on IP Device Tracking (IPDT), Dynamic Host Configuration Protocol (DHCP) Snooping, Virtual Local Area Network (VLAN) configurations, and more.
  + Involved working on both Cisco and Nexus OS

***Identity Services Engine Portal,*** *Cisco*[*https://www.netdevmike.com/project/identity-services-engineer-portal*](https://www.netdevmike.com/project/identity-services-engineer-portal)

**United Wholesale Mortgage, August 2021 – Present**

* + Consolidate SSID for both Guest and employees to a single SSID using Cisco’s Identity Services Engine
  + Wireless Lan Controller during project was Cisco Catalyst 9800 Series’

***Coded Network Team Inventory Rework solutions in both C++ and Python***

<https://www.netdevmike.com/project/network-team-inventory-rework>  
**United Wholesale Mortgage, August 2021 – Present**

* + Created inventory tracking C++ CLI option which exports to an excel document and automates inventory reduction based on projects.
  + Created Python GUI option for those not comfortable with CLI interface

**Academic Projects**  
***Set up a complete CI/CD Jenkins pipeline for Kubernetes***

Lab Work while studying for Kubernetes CKA, December 2021

* + Pushed code to GitHub, utilized Jenkins to clone copy of application code.
  + Compiled project with Gradle
  + Built docker image, pushed lates docker image to dockerhub, pulled image from docker hub, deployed docker image into Kubernetes Cluster

***Designing and Building a Cloud Architecture that assures secure isolation of physical and logical infrastructure***

Cloud Security course Harvard Extension School, January 2021-present

* + Compute (using Cloud hosted virtualization, containerization and serverless computing), network and storage, comprehensive data protection at all layer’s auditing processes and compliance with industry and regulatory mandates.
  + Threat modeling using STRIDE model and architectural security assessments
  + Threat and fraud detection by using Machine learning techniques

***Completed a 16-bit CPU MIPS like architecture***

<https://cscie93.dce.harvard.edu/fall2021/ProblemSet2.txt>

Computer Architecture course Harvard Extension School, September 2021-December 2021

* + Able to address at least 64K bytes of memory, but you will be supplied with 2M bytes of memory (the memory can be accessed as bytes, as 16-bit quantities (henceforth referred to as a word), or as 32-bit doublewords in little endian order; the size of an access is determined by control flags sent to the memory),
  + read and write variable-length strings to and from a virtual terminal

**Education & Certifications**



**Harvard Extension School, Boston**

*Master’s in Information Management Systems, September 2021 – December 2023*

**Notre Dame College, Online**

*Master’s in Business Administration, December 2020 – July 2022*

**Harvard Medical School (HMX), Boston, Massachusetts**

*Certificate of Achievement in Medicine, April 2017*

*Medical Course Work in Biochemistry, Physiology, Genetics, and Immunology*

**University of Michigan, Michigan**

*Bachelors of Biological Science, April 2014*

**Certifications:**   
Kubernetes and Cloud Native Associate (KCNA) Scheduled January 2022

AWS Certified Solutions Architect Associate Scheduled January 2022

LFS250: Kubernetes and Cloud Native Essentials January 2021

Microsoft Certified: Azure Fundamentals, AZ-900 September 2021

Unity Essentials / Unity Junior Programmer January 2021

AWS Certified Cloud Practitioner December 2021 | Expires December 2024

Microsoft Certified Azure Administrator, AZ-104 December 2021 | Expires December 2022

Cisco Certified Network Associate, CCNA August 2021 | Expires 29 August 2024