

Muhammad Zunnurain Hussain

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Artificial Intelligence Essentials

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 5 September 2019

Description

The badge earner has learned what Artificial Intelligence (AI) is through exploration of use cases and applications of AI. They understand AI concepts and terms like machine learning, deep learning and neural networks. They have demonstrated how to use AI in action with a mini project.



Tools for Data Science

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 4 November 2019

Description

This badge earner has demonstrated their skill and understanding of how popular data science tools such as the Jupyter Notebook, RStudio, Zeppelin and Watson Studio are used, as well as the advantages and disadvantages of each tool.



Introduction to Enterprise Computing

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 1 February 2020

Description

Mainframes are fundamental on how we do business, and IBM Z is the only production mainframe sold today. Virtually everyone depends on it. This badge earner has acquired knowledge around an introduction to the hardware, operating systems, security, and features that make this possible.



Getting Started on Mainframe with z/OS Commands and Panels

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 1 February 2020

Description

Through participation in hands-on labs which access a live IBM Z server, this badge earner has gained fundamental and practical skills to navigate and work in a z/OS environment. This includes the use of ISPF/PDF dialogs, and TSO/E commands.



Basic System Programming on IBM Z

Issued by: Coursera

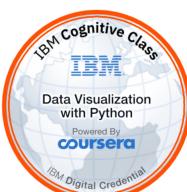
Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 2 February 2020

Description

Through participation in hands-on labs, this badge earner has gained experience with everyday z/OS tasks with JCL, JES, ISHELL and HFS, and z/OSMF. The earner has gained knowledge in topics covering VSAM, z/OS System Libraries, the Language Environment, Generation Data Groups, RAIM, DB2, UNIX System Services, and USS File System.



Data Visualization with Python

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 3 February 2020

Description

This badge earner has a good understanding of what data visualization is, uses of data visualization, and best practices when creating plots and visuals. The individual has the skills to use different Python Libraries, mainly Matplotlib and Seaborn to generate different types of visualization tools such as line plots, scatter plots, bubble plots, area plots, histograms, and bar charts. The earner is able to use the Folium library to visualize geospatial data and to create choropleth maps.



Applied Data Science Capstone

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 24 February 2020

Description

The badge earner has demonstrated proficiency in applying Data Science and some Machine Learning concepts including identifying and clearly defining a problem that can be solved using location data, working with and making calls to APIs, and using location data to solve the problem defined. The individual has also demonstrated proficiency in documenting their work and preparing a full formal data science project report.



Databases and SQL for Data Science

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 24 February 2020

Description

This badge earner understands relational database concepts, can construct and execute SQL queries, and has demonstrated hands-on experience accessing data from databases using Python-based Data Science tools like Jupyter notebooks.



Python for Data Science and AI

Issued by: Coursera

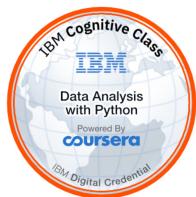
Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 24 February 2020

Description

This badge earner has the core skills in Python such as critical data structures, programming fundamentals and experience with core libraries for data science. They can apply this knowledge to work with data and develop applications for data science. The individual also has sufficient Python knowledge to work with Python libraries.



Data Analysis with Python

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 25 February 2020

Description

This badge earner has the core skills in Data Analysis using Python. They can readily clean, visualize and summarize data using Pandas. Using Scikit-learn, the earner can develop Data Pipelines, construct Machine learning models for Regression and evaluate these models.



Data Science Foundations Specialization

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 15 July 2020

Description

This badge earner has developed foundational skills in Data Science. The earner understands what Data Science is and knows about the various kinds of tasks that a Data Scientist performs. The individual has hands-on working knowledge of various open source Data Science tools such as Jupyter notebooks, can describe and apply the methodology and process to solve data science problems, and has an applied knowledge of working with relational databases and accessing data using SQL.



Introduction to Cloud Computing

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 27 July 2020

Description

This badge earner understands the basics of cloud technology and is able to describe cloud platforms and models including IaaS, PaaS, SaaS, and public, private and hybrid multiclouds. The badge earner is familiar with essentials of cloud applications and terms like Virtualization, VMs, Containers, Object Storage, Microservices, Serverless, Cloud Native, and DevOps. The individual has also gained hands-on experience at creating a cloud account and provisioning services on IBM Cloud.



Cyber Threat Intelligence

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 28 July 2020

Description

This badge earner can describe examples of network defensive tactics, discuss data loss prevention and endpoint protection concepts and tools, and explore the IBM Security Guardium user interface to learn how to classify data in a database environment. The earner can describe security vulnerability scanning technologies and tools and identify the key concepts around threat intelligence. They have explored the IBM Security QRadar SIEM product and suspicious alerts and know how to take action.



Penetration Testing, Incident Response and Forensics

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 28 July 2020

Description

This badge earner can describe penetration testing tools and the benefits to an organization,

and can articulate the power of scripting. The individual can describe a deep dive into incident response techniques and tools. They also understand the basics around digital forensics and digital evidence.



Cybersecurity Breach Case Studies

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 28 July 2020

Description

This badge earner can research and describe breach cases including the following scenarios: A third party software company breach where multiple clients are affected; Ransomware threats and the consequences to organizations; Exposed data through misconfigured servers; and the effects of a phishing attack and cybersecurity criminal threats. The earner can investigate a real-world security breach identifying the attack, vulnerabilities, costs and prevention recommendations.



Introduction to Cybersecurity Tools & Cyber Attacks

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 28 July 2020

Description

This badge earner understands the various types of malicious software and the evolution of security based on past cyber-attacks. They have gained an understanding of key cybersecurity concepts such as CIA Triad, Access Management, Incident Response, as well as key cybersecurity tools including firewall, anti-virus, cryptography, penetration testing and digital forensics.



Applied Data Science Specialization

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 28 July 2020

Description

This badge earner has demonstrated practical skills required to solve real-world data science challenges. The earner has developed core skills in Python and can apply these skills to create applications for data science. The learner has a good understanding of data visualization, and can use Python libraries such as Matplotlib and Seaborn to generate different types of data visualizations such as line plots, scatter plots, bubble plots, area plots, histograms, and bar charts.



Cybersecurity Roles, Processes & Operating System Security

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 8 August 2020

Description

This badge earner understands the key cybersecurity roles within an organization and the importance of ITIL processes. They have a basic understanding of architecture, file systems, and basic commands for multiple operating systems including Windows, macOS, and Linux. The badge earner is also familiar with the concept of virtualization as it relates to cybersecurity.



Cybersecurity Compliance Framework & System Administration

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 12 August 2020

Description

This badge earner has gained an understanding of key cybersecurity compliance and industry standards including NIST, GDPR, HIPAA, SANS and PCI. They have learned the role and function of server and user administration, as well as encryption, encoding, hashing and digital

certificates as it relates to cryptography.



Network Security & Database Vulnerabilities

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 12 August 2020

Description

This badge earner understands network basics around the TCP/IP and OSI Models, as well as recount DNS, DHCP, Switching and Routing concepts. They can describe the structures and vulnerabilities of key databases for cybersecurity including SQL, Couch, Oracle and MongoDB.



IBM AI Foundations for Business Specialization

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 12 August 2020

Description

This badge earner can explain Artificial Intelligence and articulate how it is used for business leaders considering AI-based solutions for business challenges. They understand business-oriented technologies and basic concepts in AI, and have been introduced to the technologies and concepts in data science. The earner can articulate details of the AI Ladder, which is a framework for understanding the work and processes that are necessary for the successful deployment of AI-based solutions.



Chatbot Building Essentials

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 12 August 2020

Description

The badge earner has demonstrated the ability to design, build, analyze, and improve chatbots. The individual has also proven their end-to-end skills by deploying chatbots on a WordPress site.



IBM AI Ladder: A Framework for Deploying AI in your Enterprise

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 12 August 2020

Description

The successful badge earner will be able to explain and describe the technical and strategic concepts of the AI Ladder, enabling them to understand the development, deployment, and maintenance of business solutions leveraging AI.



Security Analyst Fundamentals Specialization

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 13 August 2020

Description

This badge earner has learned and explored concepts around security tools and threat intelligence; penetration testing, incident response and forensics; and Cybersecurity breach case study research and reporting.



Artificial Intelligence Foundations Specialization

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 14 August 2020

Description

This badge earner understands what AI is, its applications and use cases across various

industries, and terms like Machine Learning, Deep Learning and Neural Networks. They are familiar with IBM Watson AI services that enable any business to easily employ pre-built AI smarts to their products and solutions. They know how to create intelligent virtual assistants, how they can be leveraged in different scenarios, and have built and deployed an AI enabled chatbot on a website – without any coding.



Watson AI Application Building Practitioner

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 27 August 2020

Description

The badge earner is able to build an application that leverages multiple Watson AI services (Assistant, Discovery, Speech to Text, Assistant, and Text to Speech). They are knowledgeable about the best practices of combining Watson services, and how they can build interactive information retrieval systems with Discovery + Assistant.



Google IT Automation Professional Certificate

Issued by: Coursera

Issued to: Muhammad Zunnurain Hussain

Issued on: 9 September 2020

Description

This six-course certificate, developed by Google, is designed to provide IT professionals with in-demand skills -- including Python, Git, and IT automation -- that can help them advance their careers. The hands-on curriculum is designed to teach learners how to write code in Python, with a special focus on how this applies to automating tasks in the world of IT support and systems administration.



IBM Applied AI Professional Certificate

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 11 September 2020

Description

This badge earner has a firm understanding of AI, its applications and use cases, and is familiar with IBM Watson AI services and APIs. They can create AI driven chatbots and have gained practical Python skills to work with AI. They can use IBM Watson AI services and APIs to design, build & deploy AI-powered applications on the web. They are proficient in applying AI and building AI solutions.



IBM Cybersecurity Analyst Professional Certificate

Issued by: Coursera

Authorized by: IBM

Issued to: Muhammad Zunnurain Hussain

Issued on: 9 December 2020

Description

The credential earner is ready for a career in cybersecurity with demonstrated ability to solve real-world problems. The individual has obtained knowledge of cybersecurity analyst tools including data protection; endpoint protection; SIEM; systems and network fundamentals; as well as key compliance and threat intelligence topics important in today's cybersecurity landscape. The earner has also gained skills for incident responses and forensics.



Aviatrix Certified Engineer - Multi-Cloud Network Associate

Issued by: Aviatrix

Issued to: Muhammad Zunnurain Hussain

Issued on: 15 December 2020

Expires on: 15 December 2023

Description

The Aviatrix Certified Engineer (ACE) Multi-Cloud Networking Associate certification validates the earner's understanding of basic networking and security concepts for AWS, Azure, GCP, and OCI as well as their limitations in meeting Enterprise requirements. An ACE-Associate understands the basic design principles of a multi-cloud network architecture and can demonstrate knowledge of day 2 operational requirements.



Scrum Foundation Professional Certificate

Issued by: CertiProf

Issued to: Muhammad Zunnurain Hussain Muhammad Zunnurain Hussain

Issued on: 22 December 2020

Expires on: 22 December 2022

Description

Earners of the Scrum Foundation Professional Certificate have developed the entry-level skills in scrum that endorses their fundamental knowledge in this framework, key definitions and roles. The Learning Objectives for this certification are based on: Scrum Guide, 4 values and 12 principles.