PROG 358 Introduction to Hyperledger Fabric

MICROCREDENTIAL AWARDED TO

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Specific Learning Objectives:

Describe the key features and benefits of Hyperledger Fabric as a permissioned blockchain platform (performance, condition, criterion). Identify the main components of Hyperledger Fabric's architecture, such as peers, orderers, and channels (performance, condition, criterion). Compare and contrast Hyperledger Fabric with other blockchain platforms, such as Ethereum and Bitcoin (performance, condition, criterion). Analyze the use cases and potential applications of Hyperledger Fabric in various industries, such as finance, supply chain, and healthcare (performance, condition, criterion). Develop a clear understanding of the consensus mechanisms used in Hyperledger Fabric, such as Raft and Kafka (performance, condition, criterion). Evaluate the security features of Hyperledger Fabric, including privacy, confidentiality, and access control (performance, condition, criterion). Demonstrate the ability to install and configure a Hyperledger Fabric network (performance, condition, criterion). Design and develop chaincode applications using Hyperledger Fabric's programming model (performance, condition, criterion). Implement and deploy smart contracts on the Hyperledger Fabric platform (performance, condition, criterion).

In partial fulfillment of the requirements for the nanodegree of

Blockchain Studies (CSC - BSTUD)

(4.5 Clock Hours) (80% Passing Score)

11 Sep 2023

Verification ID: **64ff1fbda1e9e223c60cbe2c**

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