Certified Blockchain Architect Training

Duration: **15 Day**

BILGINÇ IT Academy
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Overview

Blockchain Council offers instructor-led training for those individuals who are unable to undertake classroom learning sessions. We conduct online training using state-of-the-art techniques to ensure the best immersive learning experience. Participants can interact and communicate with the instructor, have constructive conversations at their own pace and comfort, without losing out on the flavor of classroom learning.

CERTIFICATION BENEFITS

- Prove your Blockchain skills and understanding of the acquired knowledge
- Gain an in-depth understanding of Blockchain and its implementation
- Implement your skills in any Blockchain applications
- Build your own Blockchain enterprise with acquired knowledge

What does a Blockchain Architects do?

- Blockchain Architects possess a thorough knowledge of Blockchain-based systems and have the ability to innovate and implement new business models. They possess a good understanding of different consensus mechanisms. Ideally, Blockchain architects should have deep expertise in distributed systems. They should comfortably tweak consensus mechanisms to suit the requirements.

The Growth Curve ahead:

- This Instructor-led training will definitely help you in carving a new and better career curve ahead. You can be a:
- Blockchain Architect
- Blockchain Consultant

Domains Blockchain Architects work in:

- Retail
- E-Commerce
- Banks
- Telecom
- FMCG
- Manufacturing
- other domains

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What You Will Learn

- Lifetime access to all of the course resources, including lecture videos, practice sets, and capstone projects
- Blockchain Council Certification
- Access to Blockchain Council's vibrant community of blockchain enthusiasts from around the world for collaborating on future projects
- Access to industry leaders in the blockchain domain for 24/7 query resolution support

Outline

- Introduction
  - Introduction to Certified Blockchain Architect
- Blockchain Architecture Basics
  - What is Blockchain?
  - How Blockchain works?
  - How Blockchain is different from traditional technologies?
  - Is Blockchain a Silver Bullet?
  - Blockchain Decision Overview
  - Digital Assets and Multiple Parties
  - Technical Approach
  - Network Configuration
  - Deciding Factors
- Tools required for Blockchain Architecture
  - Additional Technologies Supporting Blockchain
  - Programming Languages you can use to Build Blockchain solutions.
  - Cryptography and Blockchain Algorithms
  - Overview of Blockchain Platforms
  - Public Platforms
  - Commercial Platforms
  - Blockchain Functional Architecture
  - Blockchain Environment Considerations
  - Public vs Private
  - Permissioned vs Permissionless
  - Cloud vs Native
- Developing your own Network Nodes
  - Blockchain Functional Risks
  - Transaction costs
  - Interoperability
  - Additional Blockchain technologies
  - On Chain vs Off Chain
  - Lighting Network
  - CoCo Framework
  - Smart Contracts
  - Oracles
  - Business Components of Blockchain Architecture
  - Problem
  - Stakeholders
  - Devices
  - Type of Blockchain

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    - Technical Components of Blockchain Architecture
    - Ledger
    - Smart Contracts
    - P2p Network
    - Membership
    - Protocols
- Architecting your own Blockchain Solution
    - Analyze requirements
    - Translate requirements into functions
    - Transactions
    - Blocks
    - Data Privileges
    - Data Processing
    - Translate Stakeholders into nodes
    - Node Creation and Management
    - Node Data Communication and Processing
    - Define roles for nodes
    - Identity
    - Privacy
    - Security
    - Sandbox or ground-up the platform
    - Define development resources: Programming Frameworks and Programmers
    - Blockchain Development
    - Blockchain Hosting
    - Blockchain Support
    - Blockchain Security and Implementation
    - Government Regulations
    - Legal Issues
    - Loopholes
    - Hurdles
    - Common Mistakes
    - Blockchain Risk Management
    - Enterprise Risk
    - Operational Risk
    - Market Risk System Risk
- Certified Blockchain Architecture Exam
    - There will be an online training followed by a multiple choice exam of 100 marks.
    - You need to acquire 60+ marks to clear the exam.
    - If you fail, you can retake the exam after one day.
    - You can take the exam no more than 3 times.
    - If you fail to acquire 60+ marks even after three attempts, then you need to contact us to get assistance for clearing the exam