Certified Ethereum Developer Eğitimi

Süre: **9 Gün**

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Overview

Earning this certification will entitle you to become an Ethereum developer, which is an extremely in-demand skill in the international job market currently.

- Know what it means to be a developer in the Ethereum domain
- Explore different tokens and dApps
- Learn to build projects around InterPlanetary File System (IPFS)
- Learn about testing of smart contract and its tools
- Learn how to create, compile and deploy smart contracts on the Ethereum platform
- Learn to build projects like NFT marketplace and games based on NFT

CERTIFICATION BENEFITS

- Grasp an in-depth understanding of solidity programming language
- Build different projects with acquired knowledge
- Have an overview of different types of tokens and dApps
- Build knowledge about smart contracts

What does an Ethereum Developer do?

- A certified ethereum developer is a skilled professional who knows how to write a smart contract and create test cases for those smart contracts. The developer is fully equipped with the skills required to excel in the world of blockchain networks, having varied knowledge of the basics and fundamentals of Ethereum.

The Growth Curve ahead:

- Blockchain Developer
- Blockchain Architect
- Blockchain Consultant
- Smart Contract Developer

Outline

- Introduction to Certified Ethereum Developer
- Understanding the Basics
  - Blockchain
  - Ethereum
  - Bitcoin Vs Ethereum
  - Nodes
  - Mining
  - PoW Vs PoS
  - Addresses, Keys & Wallets

    - Transactions
    - Forks
    - Smart Contract
    - Ethereum Virtual Machine
    - Decentralized Apps
    - Decentralized Autonomous Organizations
- Ethereum Overview
    - About Ethereum
    - EVM (Ethereum Virtual Machine)
    - Ethereum Tokens
    - Test Networks of Ethereum
    - More about Ethereum
- Ethereum Tokens
    - Guide to ERCs & EIPs
    - ERC-20 Standard
    - Trading ERC-20 Tokens
    - ERC-721 Standard
    - Trading ERC-721 Tokens
    - ERC-1155 Tokens
- Understanding the Non-Fungible Tokens (NFT)
    - Non Fungible Tokens: A Little Background
    - What's an NFT?
    - The Internet of assets
    - How do NFTs work?
    - What are NFTs used for?
    - Ethereum and NFTs
- IPFS (InterPlanetary File System)
    - Fundamentals of IPFS
    - Installing IPFS
    - Running IPFS
    - Operations on IPFS
- Learning Solidity
    - Introduction to Solidity
    - Solidity: Beginner to Intermediate
    - Units
    - Error Handling
- Getting started with Smart Contract
    - Introduction
    - Smart Contract Development
- Testing of Smart Contract
    - Testing in Smart Contracts
    - Testing Tools & Best Practices
- Prerequisites & Installation
    - Remix IDE Walk-through
    - Setting up the MetaMask in your Browser
    - Installing Development Environment
    - Writing our First Smart Contract
    - Deploying Smart Contract with Truffle
- Project 1 - Basic Smart Contract With Front End
    - Remix IDE Walk-through
    - Setting up the MetaMask in your Browser
    - Installing Development Environment

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    - Writing our First Smart Contract
    - Deploying Smart Contract with Truffle
- Project 2 - Developing advance Smart Contract using Solidity
    - Introductions
    - Setting up the project
    - ERC-20 Tokens
    - Dapp Smart contract
    - Deployment Script
    - Deployment on the local development network (Ganache)
    - Connecting Front-end with smart contracts
    - Setting up custom rpc and ganache account
    - Front End of Dapp
    - Issue Rewards and wrapping up the project
- Project 3 - End-To-End NFT Project [Advanced Collectable]
    - Introduction to Advanced Collectible NFT
    - Creating Ethereum smart contract
    - Creating Function to set token URI
    - Creating Python Script to deploy Smart Contract Part-1
    - Creating a Python Script to fund the Contract with Link Tokens
    - Creating Python Script to deploy Smart Contract Part-2
    - Interacting with Smart Contract
    - Creating Metadata Part-1
    - Creating Metadata Part-2
    - Viewing NFT Token in OpenSea website
- Project 4 - Building NFT Game
    - Building the Ethereum Smart Contract
    - Deploying our NFT
    - Creating NFT Website
    - Interacting with our NFT Smart Contract
    - Improving the look of our dApp
    - Rendering All Tokens
    - Final Game Layout
- Certified Ethereum Developer 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