**Title: BlockChain Deep Dive series - Part 3 – Advanced Smart Contracts & DApps**

Hello again to the BlockChain community, we do hope you did learn quite well on the last session digging into the details of Ethereum. If you did find that useful , you would find the next one much interesting because we will be doing hands-on exercises with Advanced Smart Contracts and develop a Distributed Application.

You need not worry if you have missed earlier sessions, it is never too late to get hands-on experience , and you can catchup by following the past meetup link below and also join Slack acquaint yourself.

<https://www.meetup.com/hydemergintech/events/250400594/>

If you are not already on please join the BlockChain Slack community - https://goo.gl/forms/XlSsSiG2fHHDrf7b2.

Please go through the recommended learnings before you attend the meetup, believe us it helps immensely to have productive conversations.

**Agenda for this month:**

* Solidity basics for writing Smart Contracts
* The Lottery DApp overall architecture
* Writing Smart Contracts for the Lottery App
* Understanding about Web3 JS and MetaMask better
* Understanding Faucets to fund fake Ethers on Rinkeby network
* Using payable methods to accept Ether payments
* Using require to notate minimum payment associated
* Configuring Infura for the application
* Deploy to Infura based Rinkeby network
* Building the User Interface that can interact with the Solidity Smart Contract
* DEMO & Hands-on

*Bring your Laptop or Mac, and also BlockChain runs best on Linux/MacOS .. so if you are using windows pls have a Virtual Box image running with Ubuntu Linux 17.10 (contact us if you have questions)*

**Our goal is to be able to bring together people who:**

* Believe BlockChain being their future
* Want to meet like minded people who want to get their hand-on experience for BlockChain
* Want to build Expertise on BlockChain

**About the Speaker / Moderator(s):**

Rishi is as a TOGAF certified Technology Architect working at IBM and has been associated with the BlockChain space for more than an year, and for the past 13 years he has been instrumental in leading projects associated with Enterprise Integration Java/JEE,Open Source for various clients. He is passionate about all things technology but is particularly interested in BlockChain, Augmented Reality, SmartGrids and technologies for Agriculture.

This meetup will have one or more moderators.

**Prerequisite Setup Instructions:**

<https://code.visualstudio.com/>

<https://www.npmjs.com/package/node-windows>

<http://truffleframework.com/ganache/>

<http://truffleframework.com/tutorials/how-to-install-truffle-and-testrpc-on-windows-for-blockchain-development>

<https://github.com/ethereum/go-ethereum/wiki/Installing-Geth>

Optional , but if you can do the below also:

Signup Infura network - <https://infura.io/signup>

Fund Rinkeby Wallet using Faucet - https://faucet.rinkeby.io/

PS: some of these links will have same software being installed, if you have already installed what’s being said you need not install again.

**Here are the recommended learnings that we would like you to go through to better understand about Solidity Smart Contracts and Dapps before attending the next meetup:**

What is a Decentralized Application?

<https://www.coindesk.com/information/what-is-a-decentralized-application-dapp/>

Learn Solidity — The Ethereum smart contract programming language

<https://medium.com/@robbertvermeulen/learn-solidity-the-ethereum-smart-contract-programming-language-7f106fc26d6>

Basics of React JS to help build User Interfaces that interact with Ethereum BlockChain

<https://www.tutorialspoint.com/reactjs/index.htm>

Mocha With Node.js For Test-Driven Development

<https://webapplog.com/tdd/>