

BLOCKCHAIN ESSENTIALS

INTRODUCTORY **BLOCKCHAIN@PSU** WORKSHOP
LOCATION: 102 THOMAS, SUNDAYS @ 3:30 PM - 4:30 PM

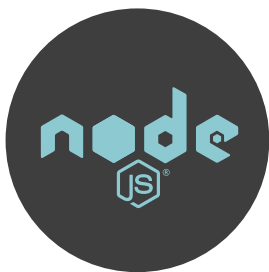
OBJECTIVES

- Learn about the fundamental concepts behind blockchain
- Understand the application of smart contracts
- Implement full-stack programming concepts
- Create standalone decentralized apps (DApps)

SKILLS



JAVASCRIPT



FULL-STACK DEV



SMART CONTRACTS



ETHEREUM & WEB3



DAPP DEVELOPMENT

TOPICS

1/26: Introduction to Blockchain Essentials

- Course Structure
- Bitcoin Case Study

2/2: Full-Stack Development

- Client and Server Sides
- Requests and Databases
- UI Design Resources

2/9: Cryptography

- Encryption
- Hashing (SHA-256)
- JavaScript Implementation

2/16 & 3/1: Creating a Blockchain in Javascript

3/22: Smart Contracts and DApps

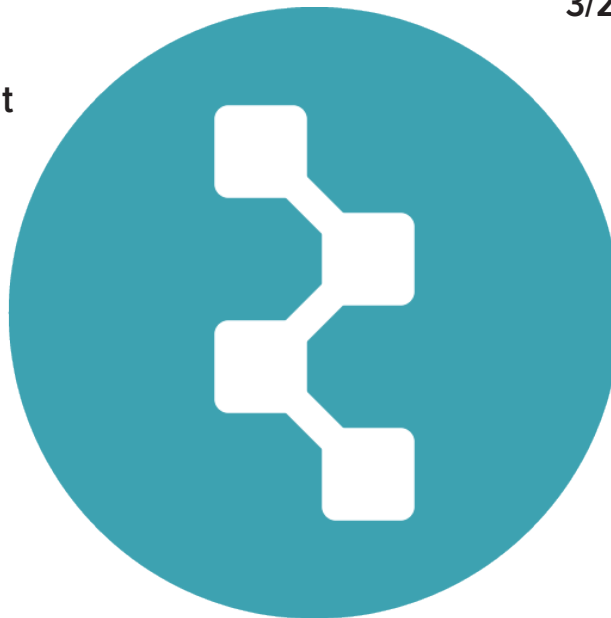
- What are Smart Contracts?
 - Use Cases
- Introduction to DApps

3/29: Solidity

- Creating Smart Contracts
 - Live Coding session

4/5 & 4/12: Creating DApps

- Introduction to Truffle
 - Truffle and Solidity



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