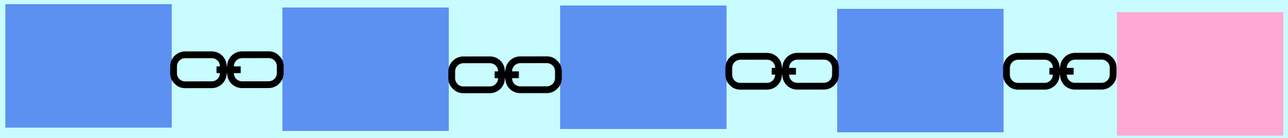
Blockchain Technology



How to Become a Blockchain Developer

Organized By Computer Science Society

Blockchain Technology

Work on:

- Ethereum Blockchain
- Solana Blockchain
- Android Apps
- Web Apps

MUHAMMAD ZARYAB RAFIQUE

Blockchain Engineer

zaryab-programmer

Zaryab-Programmer

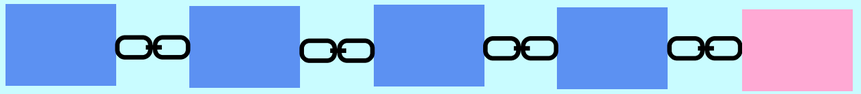
Outlines

What is Blockchain

Blockchain Career Path

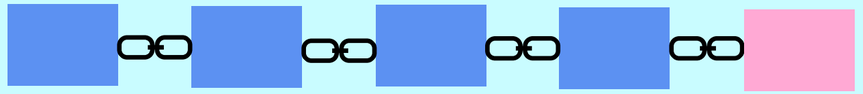
Strong the Computer Science base

How to get a remote job as a student

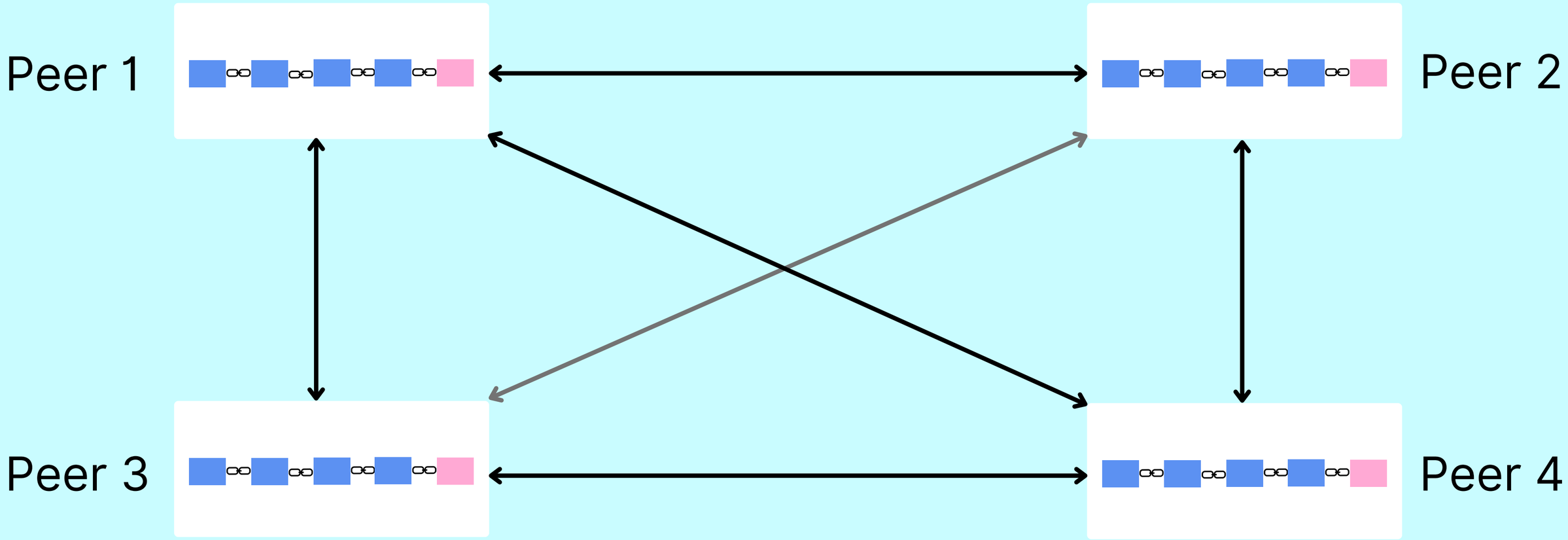


What is Blockchain

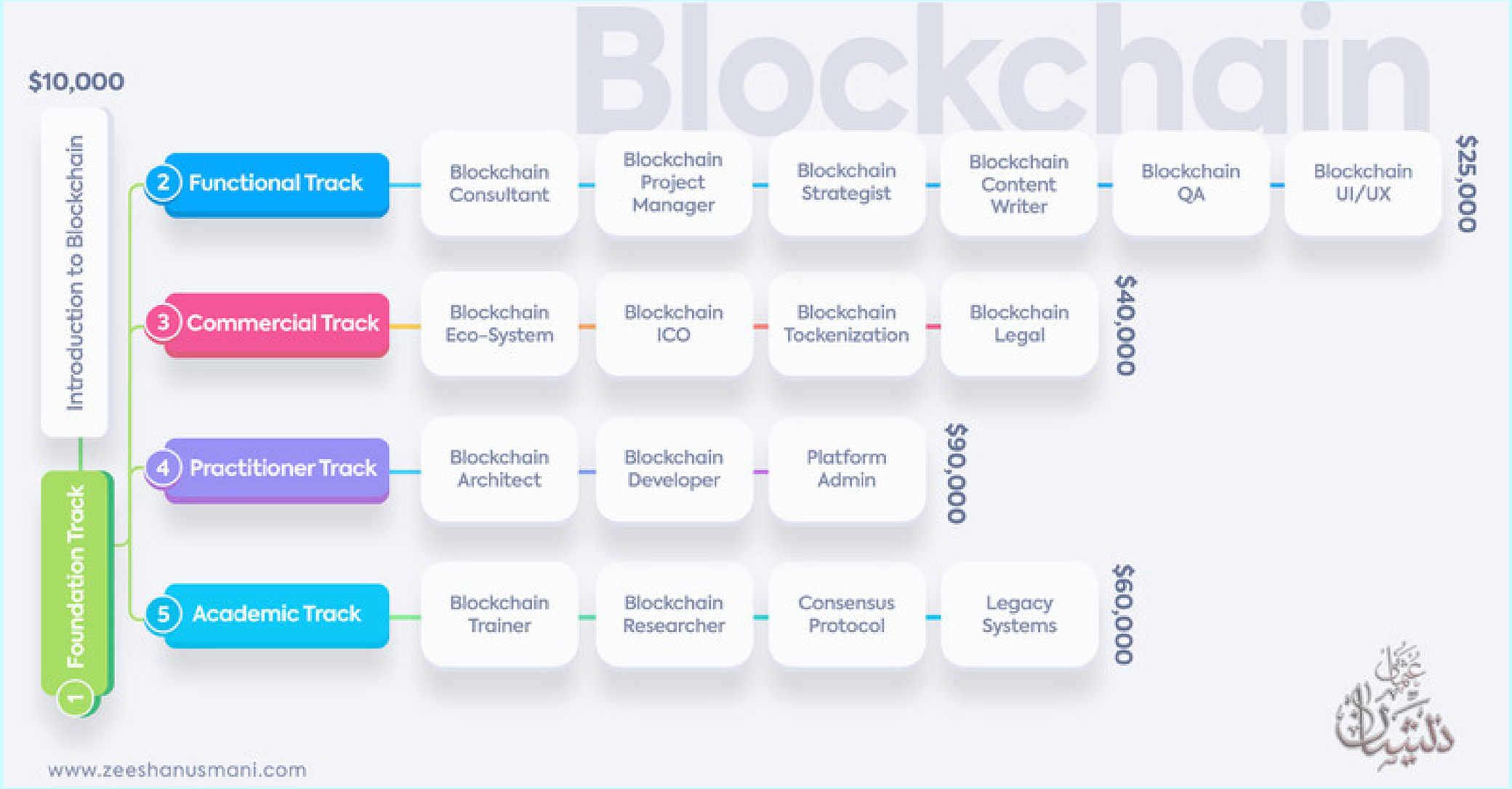
Blockchain is a peer-to-peer **decentralized distributed ledger** that **permanently** & **chronologically** records and guarantees an **immutable**, unalterable trustworthy transaction (of money or any valuable asset) in a trust-less environment through **consensus protocol** secured by **cryptography** with **economically incentivized** participation



What is Blockchain



Blockchain Career Path



Credit: Prof. Dr. Zeeshan-ul-hassan Usmani

Types of Blockchain Developers

Blockchain Core Developer

- Architecture development of a **blockchain system**
- Design **consensus protocol**
- Responsible for as well:
  - Security of their **blockchain network**

Blockchain DApp Developer

- Build **apps** based on **blockchain architecture** called **DApps**
- **DApps** run on **blockchain**
- Responsible for:
  - **Front-end**
  - **Back-end** dev of **Dapps**

Blockchain DApp Developer Career Pathway

1. **Fundamental of Blockchain -** basics, works, deep dive in blockchain
2. **Ethereum Blockchain -** is a blockchain with smart contract functionality
3. **Solidity -** for Backend (**Smart Contract** programming language)
4. **React Js -** for Frontend (JavaScript library for building UI)
5. **Truffle -** Framework (compile, test and deploy **smart contract** code)
6. **Web3 Js -** Ethereum JS API (To interact with local or remote ethereum node)
7. **Ganache -** Personal blockchain for Ethereum (enable you to develop, deploy, and test your dApps)

Strong the Computer Science base

Object Oriented Programming

Data Structure

Database

Algorithms

Computer Networks

Operating System

https://pll.harvard.edu/course/cs50-introduction-computer-science?delta=0

How to get a remote job as a student

- **Do Learning**
- **Build Projects**
  - Publish to Github
  - Add to your personal website
- **Create Resume**
  - **Nova Resume** - https://novoresume.com
  - **Overleaf** - https://www.overleaf.com
- **Linkedin Account**
  - Create Account
  - Complete your profile & increase connections (connect to professionals)
  - Post about technology
  - Apply on remote jobs (at job section)

Advise

Improve, Maintain

Health

Summary

- Concept of blockchain
- Blockchain Career Path
  - Types of Blockchain Developers
    - Blockchain DApp Developer Career Pathway
- Strong the Computer Science base
- How to get remote job as a student
- Improve, Maintain Health

Resources Links

- **CS50:** https://pll.harvard.edu/course/cs50-introduction-computer-science?delta=0
- **Nova Resume:** https://novoresume.com
- **Overleaf:** https://www.overleaf.com
- **LinkedIn:** https://www.linkedin.com
- **Blockchain Career Path:** https://zeeshanusmani.com/2020/01/29/blockchain-career-paths
- **Strengthens Computer Science base:** https://www.geeksforgeeks.org