On-Boarding list

DeFi

- Read two books quickly
 - https://landing.coingecko.com/how-to-defi/
 - Some questions needed to be answered
 - What is permanent loss?
 - What is the liquidity pool, and how does it work
 - What is the AMM formula
- Try \$100 over different liquidity pools and swap pools to see how do they work: <u>Curve</u>, <u>compound</u>, <u>UniSwape</u>, etc

CeFi

- **Open an account** over the following cryptocurrency exchanges and try to extract account balance via the API for each exchange.
 - Binance
 - o Okx
 - Kraken
 - Kucoin
- Learning what is the funding rate.
 - What is the funding rate?
 - O How is it calculated?
 - Think up a arbitrage way between the spot and future over the Bitcoin

Quantitative Financial Knowledge

- Learn what is the Black Scholes Model
 - https://www.youtube.com/results?search_guery=black+scholes+model+
- Learn Basics for the risk management
 - https://www.streetofwalls.com/finance-training-courses/quantitative-hedge-fund-training/important-quant-math-topics/

Backtesting Framework

• Read the doc for the backtrader

- https://www.backtrader.com/
- Follow the Quickstart tutorial, write a script to backtest the MACD Crossover Strategy over daily Bitcoin

Trading Bot

Read the doc of the following two TradingBot.

CCXT

A JavaScript / Python / PHP library for cryptocurrency trading and e-commerce with support for many bitcoin/ether/altcoin exchange markets and merchant APIs.

ccxt - documentation

hummingbot

Hummingbot is an open-source framework that helps you build automated trading strategies, or **bots** that run on cryptocurrency exchanges.

<u>Docs - Hummingbot Docs</u>

Watch videos from YouTube to learn deeper about the cryptocurrency

- Some good resources
 - https://www.youtube.com/@chainlink
 - https://www.youtube.com/@CryptomaticsYT
 - https://www.youtube.com/@BinanceAcademy
 - https://www.youtube.com/@EatTheBlocks
 - https://www.youtube.com/@WhiteboardCrypto