



BNB CHAIN



Creating NFTs on BNB Work shop

NFTs

Building on BNB

Avenger Dao Challenge

Help secure BNB with the brand new Avenger Dao API

https://github.com/ilya0/BNB_HackBoston_Workshop



Useful tools



BSC Scan - useful analysis & development tool

- **blockchain explorer** - all data on chain in real-time
- analytics tool for BNB Chain
- transactions and blocks as they are added
- wallet balances
- validators

How can you use it:

- during development
- check tx progress
- find smart contracts
- validate smart contracts
- on-chain analysis
- set up alerts to monitor transactions
- API endpoints
- on chain trading strategies

<https://bscscan.com>

The screenshot shows the BSC Scan interface. At the top, there's an 'Overview' section with a balance of 26,611.381 BNB and a BNB value of \$8,196,463.01. Below that is a 'Transactions' section showing the latest 25 transactions from a specific wallet, each with details like Txn Hash, Method, Block, Age, From, To, and Value. The transactions mostly involve transfers between Binance Hot Wallet and various BUSD-T Stablecoin addresses.

Txn Hash	Method	Block	Age	From	To	Value
0x0805285ccaa8718fcf0...	Transfer	1835098	34 secs ago	Binance: Hot Wallet 16	0x2f7e13f6ec890e8b037...	0.03863051 BNB
0xb5785cf076a987459a...	Transfer	1835098	34 secs ago	Binance: Hot Wallet 16	0xBUSD-T Stablecoin	0 BNB
0x7fc0ac4957a7c8e34d...	Transfer	18350973	55 secs ago	Binance: Hot Wallet 16	0xda2b110eeb2811cbb8...	0.2395 BNB
0x270ba67783bdc622175...	Transfer	18350972	58 secs ago	Binance: Hot Wallet 16	0xBUSD-T Stablecoin	0 BNB
0x7e87a37049fe499027...	Transfer	18350954	1 min ago	Binance: Hot Wallet 16	0xBUSD-T Stablecoin	0 BNB
0xd24af6da33d9e892e5...	Transfer	18350954	1 min ago	Binance: Hot Wallet 16	0xf36b5852bb307e7dea...	1.202 BNB
0x9bdf57d2fc69b1c5b3...	Transfer	18350954	1 min ago	Binance: Hot Wallet 16	0xBUSD-T Stablecoin	0 BNB

The screenshot shows the 'Validators Top Leaderboard' section. It lists the top 25 validators based on blocks validated. The table includes columns for Rank, Address, Voting Power, First Block, Last Block, 1 Day, 7 Days, 30 Days, and Active status. Most validators have active status indicated by green icons.

Rank	Address	Voting Power	First Block	Last Block	1 Day	7 Days	30 Days	Active
1	Validator: BscScan	918,575 BNB	5572034	18351003	1365	9541	40845	Yes
2	Validator: HashQuark	906,279 BNB	6202466	18351014	1364	9543	40846	Yes
3	Validator: Legend II	893,783 BNB	5629521	18351022	1366	9528	40809	Yes
4	Validator: Legend	887,694 BNB	5514516	18351019	1367	9535	40800	Yes
5	Validator: Legend III	887,584 BNB	5686991	18351006	1364	9532	40824	Yes
6	Validator: NodeReal	886,180 BNB	10	18351021	1366	9538	40835	Yes
7	Validator: InfStones	880,554 BNB	5945411	18351016	1366	9537	40839	Yes
8	Validator: Certik	875,963 BNB	5945411	18351011	1365	9539	40829	Yes
9	Validator: Neptune	866,522 BNB	13710799	18351009	1361	9490	40631	Yes
10	Validator: Namelx	861,524 BNB	4	18351002	1366	9538	40831	Yes



Mainnet VS Testnet

Mainnet	Testnet
Used for actual transactions with value.	Used for testing smart contracts and dapps.
Mainnet's network id is 56.	Testnet network id is 97.
Example – BSC Mainnet	Example – BSC Testnet





BNB CHAIN | Helpful links and Resources

- ❖ Developer Resources
 - ❖ [Forum](#)
 - ❖ [Roadmap](#)
 - ❖ [Discord](#)
 - ❖ [Whitepaper](#)
 - ❖ Documentation [docs](#)
- ❖ Development Language
 - ❖ Solidity [docs](#)
- ❖ Faucet
 - ❖ BSC Faucet [Testnet](#)

- ❖ IDE and Libraries
 - ❖ BNB Chain [Studio](#)
 - ❖ Black [IDE](#)
 - ❖ [Remix](#)
 - ❖ [BSC Client \(base on Geth\)](#)
 - ❖ [ChainIDE](#)
- ❖ Explorer
 - ❖ BSC Scan [Mainnet](#)
 - ❖ BSC Scan [Testnet](#)
- ❖ Wallet
 - ❖ Trust [Wallet](#)
 - ❖ MetaMask [Wallet](#)

- ❖ Docker
 - ❖ Required for starting BSC node and compiling projects
 - ❖ [BSC Docker Hub](#)
- ❖ Participate
 - ❖ [MVB Program](#)
 - ❖ [BUIDL Reward Leaderboard](#)
 - ❖ [Hackathon](#)
 - ❖ [Martian Program](#)
 - ❖ [Student Ambassador](#)
 - ❖ [Bug Bounty](#)

BNB CHAIN | Development Tools

Development

Solidity Code Quality



Front-End Programming



Back-End Programming



IDE



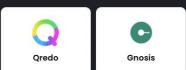
Development Framework



Wallet SDK



MPC Wallets/Multisig



Decentralized Storage

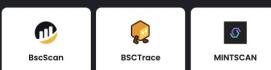


Data Oracles



Blockchain Access

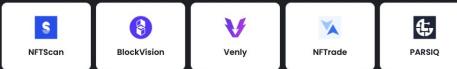
Block Explorers



Node and Archive Services



NFT Tools



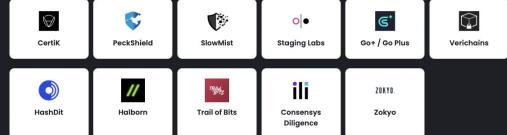
Data Indexing



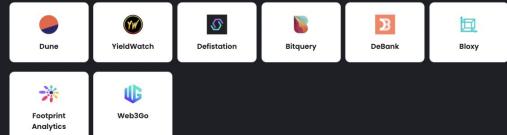
Gasless Solutions



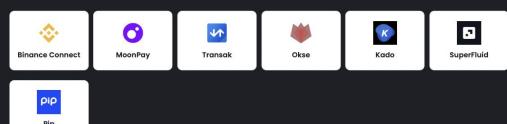
Security Audit



Analytics & Dashboards



Payment Gateway

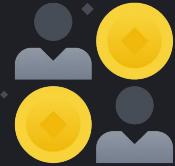


DAO Tools



Future of BNB...





Funds Support:

Sponsors of research and new development.



Campus event :

BNB Chain would like to involved in any relevant blockchain events at campus. i.e., workshop, hackathon.



Campus recruitment:

Organized roadshow and recruitment activities, campus and remote.



Incubation of projects:

BNB is actively looking for unique and innovative projects that help grow



Two Web3 Incubators

Most Valuable Builder & Binance Labs

Over 500 projects applied to MVB 5



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Funding: Get Funded at early stage

Community: Get to your users via our community

Ecosystem: Leverage our ecosystem for exposure & support

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on [Discord](#)**

**[Developer
Tutorials](#)**

**Infra partners,
tools**

**Contribute on
[Github](#)**



**24x7
Developer
Support**
**Ask. Collaborate.
Contribute.**

Let's build Web3
together on



BNB CHAIN



Binance Academy

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Sep 2022

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About Us

Founded in 2018, **Binance Academy** provides free & localized education on blockchain technology. Our mission is to educate the world about blockchain and the potential of Web3.

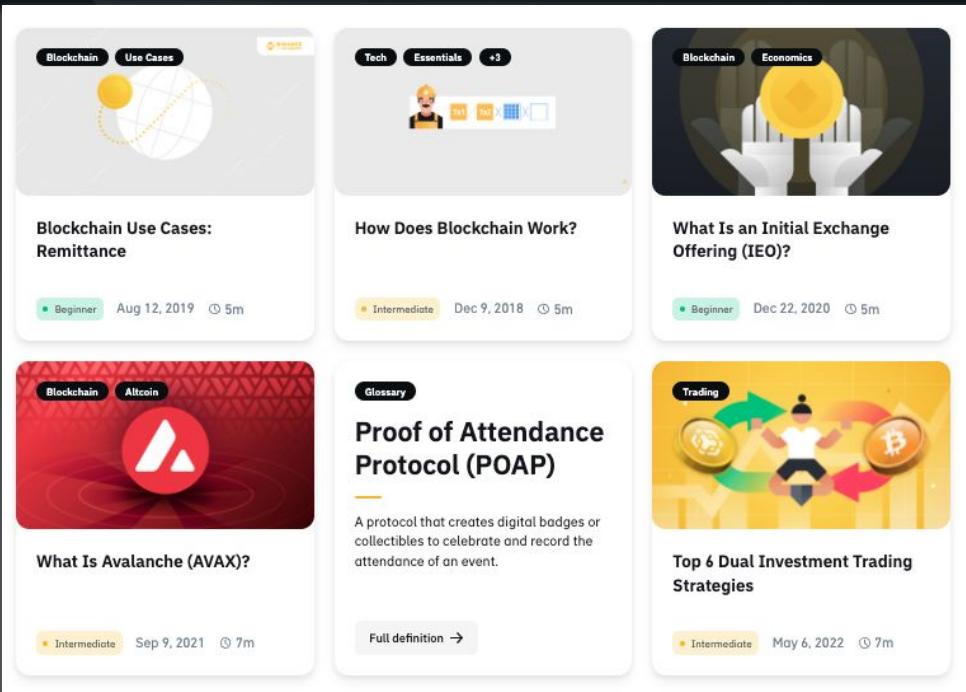
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The image displays a grid of six cards from the Binance Academy website, each representing a different blockchain-related topic:

- Blockchain Use Cases: Remittance** (Beginner, Aug 12, 2019, 5m)
- How Does Blockchain Work?** (Intermediate, Dec 9, 2018, 5m)
- What Is an Initial Exchange Offering (IEO)?** (Beginner, Dec 22, 2020, 5m)
- What Is Avalanche (AVAX)?** (Intermediate, Sep 9, 2021, 7m)
- Glossary: Proof of Attendance Protocol (POAP)**

A protocol that creates digital badges or collectibles to celebrate and record the attendance of an event.

Full definition →
- Top 6 Dual Investment Trading Strategies** (Intermediate, May 6, 2022, 7m)

Partners



Crash Courses

Crypto Fundamentals



- ◆ Blockchain 101
- ◆ Cryptocurrency 101
- ◆ Decentralization
- ◆ Web 3.0/NFT

Introduction to Trading

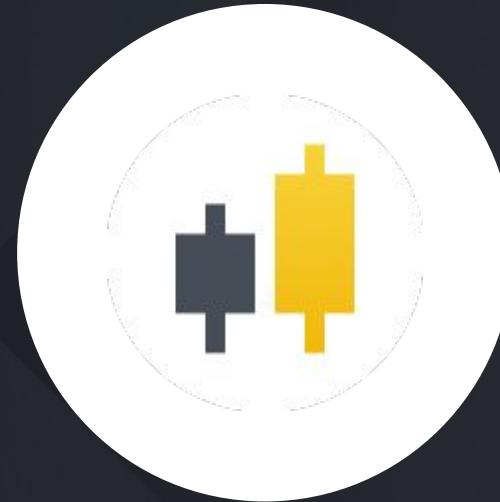


- ◆ Trading Basics
- ◆ Trading & Investing strategies
- ◆ Technical Analysis

Career Certificate Courses



BNB Chain Developer



Cryptocurrency Trader

University Outreach Program

Building communities of students & developers



Hackathons

- ◊ Intercollegiate global competition
- ◊ BNB Chain



Web3 Incubation

- ◊ Innovation x Binance Labs
- ◊ Funding up to \$1M USD



Knowledge Competitions

- ◊ Real-world projects
- ◊ Entrepreneurial business competition with prizes



Workshops & Webinars

- ◊ Knowledge-sharing sessions with technical speakers
- ◊ Hands-on workshops with Binance professionals



University Tour



50+ Schools, 15+ Countries

Student Ambassador Program

The Student Ambassador Program aims to broaden blockchain and Web3 education across campuses globally.

Why apply:



Make a Difference

Connect with other students who share a passion for blockchain and Web3 and help spread knowledge of the technology across campus.



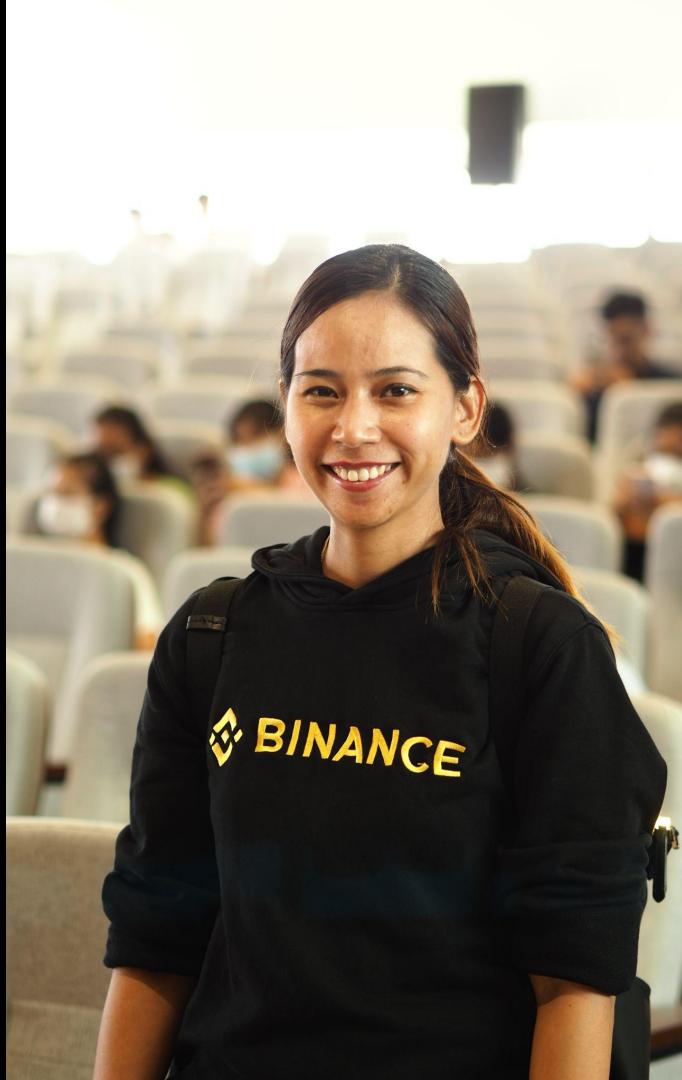
Future Career Prospects

Kickstart a Web3 career with training and certifications, support for virtual events, and unique access to experts and mentors.



Leadership Experience

Host Web3 events, offer guidance to other students and gain exposure to Web3 businesses and potential sponsorships.



Student Ambassador Benefits



Exclusive Invites to Events



Networking & Mentorship



Exclusive SWAG & merchandise



Internship & Job Opportunities



Web3 Training and Certificates

More Info & Apply for Program:

- ◆ Student Ambassador Program
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