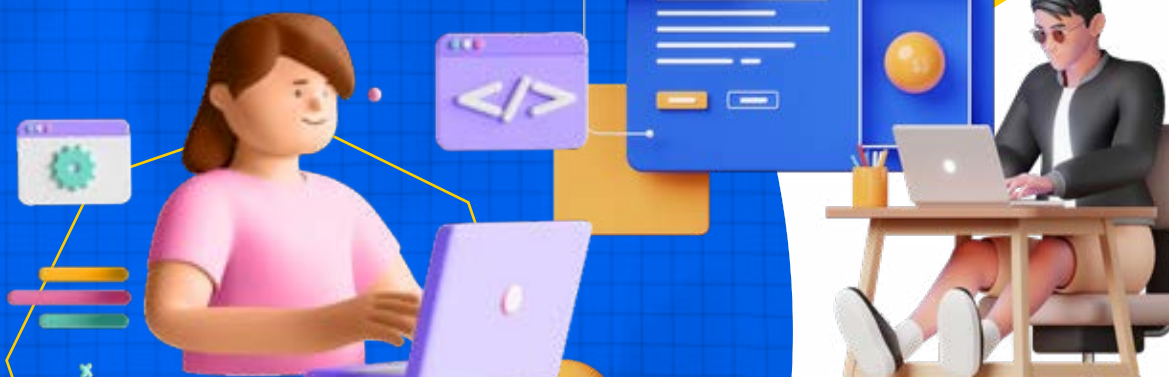# TIMECHAIN
summer of code_

May 15th - End of July

Call for Participants

✈ Our Vision

To provide students with a unique opportunity to gain practical skills, build their network, and potentially launch their careers in the rapidly growing blockchain industry. Through this program, we support the next generation of blockchain developers and help build the future of blockchain.

✈ About Timechain Summer of Code

Timechain Summer of Code is a 3 month program designed to encourage and support the development of blockchain skills among students. The program provides a platform for students to gain hands-on experience and develop practical skills in blockchain development. Our goal is to foster a community of talented and passionate individuals who are eager to explore the potential of the BSV blockchain and contribute to the growth and development of the blockchain industry.

Throughout the summer, participants will work on real-world blockchain projects, gaining experience in BSV blockchain development, programming, and networking. These projects will range from building DApps to creating smart contracts and exploring the capabilities of the BSV blockchain. The program aims to help students gain a deep understanding of the BSV blockchain, its principles, and its capabilities, as well as key programming languages like Bitcoin Script and Typescript.

The program will be conducted online, allowing participants to work from anywhere in India. Each participant will be assigned an experienced BSV blockchain developer as a mentor, who will provide guidance and support throughout the program. At the end of the program, participants will showcase their projects on a demo day, providing an opportunity to network with industry professionals and potentially secure internships or job opportunities in the blockchain industry.

Mission

Our mission is to educate and empower individuals with the skills and knowledge necessary to succeed in the rapidly growing BSV blockchain industry. By cultivating a community of passionate and skilled BSV blockchain developers, we seek to drive innovation and growth within the ecosystem. Open source code enhances developer support with tools and awareness in the developer communities. We believe that through education and mentorship, we can create a vibrant BSV developer community, and promote the adoption of BSV blockchain technology on a global scale.

Inspired from the most prestigious internship program for developers: Google summer of Code, the Timechain summer of code is a 3 month long highly selective internship program for building developer tools and talent in alignment with the Satoshi Vision of Bitcoin blockchain. **We aim to make this the most sought after Blockchain Summer of Code program that student developers seek for a career in blockchain.**

HERE ARE THE KEY BENEFITS OF PARTICIPATING IN THIS PROGRAM:

Recognition: Top 5 Developers with successful projects on the leaderboard get opportunity to present their project at the Metanet DevCon in September. All developers will be showcased on the leaderboard of TSOC and receive a FREE pass for the metanet Developer conference in September.

Job: Work with the top BSV ecosystem companies and get an opportunity to secure a job as a blockchain developer. Being part of TSOC secures a career as a blockchain dev.

Learning: Acquire blockchain knowledge and skills by working on challenging blockchain projects under the guidance of blockchain experts

Merchandize: Selected developers successfully completing the program receive a complementary Timechain Labs and BSV blockchain merchandize box

TSOC Development Projects

PROJECT #1: BITHOST

Distributed File Storage and Hosting Marketplace
IPFS done the correct way with Satoshis as incentive
DHT (Distributed Hash Table) on the blockchain

Advanced: Cassandra Integration

PROJECT #2: SECURITY TOKEN SOLUTION

ERC1400 equivalent on Bitcoin

PROJECT #3: CONTRACTSTORE

Library and Marketplace for BSV smart contracts that connect and build upon each other

PROJECT #4: METADAO

The MetaDAO project provides a catalogue using BSV, which following the ONDC (Open Network for Digital Commerce) protocol set by Government of India as part of IndiaStack of identity, payments and commerce. The original vision of DAO is actually a marketplace of service providers in a supply chain built around a central activity. This is very different than the popular distortion that has formed with DAOs being large voting schemes to chose allocation of funds. A DAO platform as per Bitcoin Satoshi Vision requires Identity linked security tokens as well as a platform fostering a marketplace through a public catalogue of service providers.

PROJECT #5: MANTHAN DEX

Decentralized Exchange on BSV

PROJECT #6: BVM
Bitcoin Virtual Machine - Independent script development and contract testing environment. Developing cross compilation and language support for all languages, replicating the Web Assembly ecosystem of tools like "Wasmer"

TSOC Development Projects

PROJECT #7: PAYAUTH

SIGN IN WITH PAYMAIL

Advanced version of WalletConnect

Bitcoin wallets connecting with other Bitcoin Wallets P2P

PROJECT #8: VOTING TOKEN AUTHORIZATION SYSTEM

Voting token system that authorizes by creating a permission system using contracts on BSV

PROJECT #9: BRIDGE TOKEN PROJECT

Bridge tokens represent other blockchain assets on BSV blockchain to benefit from the scalability and low transaction fees of BSV

PROJECT #10: METABUILDER

Unity plugin for BSV blockchain to build blockchain enabled metaverses and games easily

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TSOC Development Projects

PROJECT 11: TICTACTOE

Current TicTacToe can only be played on the SAME machine. Using the new sCrypt service, it can be upgraded so players can play it remotely as a real game. The contract may be modified so Alice and Bob do not have to interact with each other during deployment, by adding state into it. The game can be deployed by Alice alone, and Bob can join it and only then the game starts. An example in Solidity can be found at https://github.com/schemar/TicTacToe.

PROJECT 12: TODO LIST

Todo list for a single user can be built like this. It can also be extended for multiple users like this and this.

PROJECT 13: WEB2 APP CLONES

All kinds of popular web2 apps can be converted to web3 on Bitcoin, such as Twitter, Reddit, Medium, and Airbnb.

PROJECT 14: ZERO KNOWLEDGE PROOF APPLICATION

Tornado Cash is a popular mixer on Ethereum, powered by zero-knowledge proof (ZKP). Since Bitcoin also supports ZKP and runs it cheaper, Tornado Cash can be migrated to Bitcoin.

✈ Timeline

I. Selection and Interviews

25TH APRIL - 5TH MAY

Selection will be in 2 phases:

PHASE I - includes filling out a form with details and preferences (of app/projects)

Criteria for 1st phase:

- **Should know how to code and use GitHub**
- **Have basic knowledge of blockchain**

PHASE II - those not selected in the first phase because of no Blockchain experience

Criteria for 2nd phase:

- **Need to complete the BSV Certification Course**
- **Doing them and showing the course completion certificates**

II. Announcement of Final Candidates

5TH MAY

Announcing the final candidates who got selected.

III. Pre-Project Finalities

1ST MAY - 15TH MAY

- **Project And Mentor Assignment, Expectation Setting, And Program Kick-Off.**
- **Cohort Formation And Project/Mentor Matching Based On Questions Answered In The Form.**

IV. Project Start

15TH MAY

- **Kick off with the webinar**
- **Introduction to the development ecosystem, the discussion channels & support groups in the first week.**
- **A quick workshop to show how to use the NEUCRON wallet for the development.**

V. Mid Summer Check In

30th JUNE

- **Check-in on the progress of the projects**
- **Mostly driven by advisors**

VI. Final Evaluation

1ST AUGUST - 5TH AUGUST

Submission of projects and feedback by both mentor and mentee.

VII. Grading & Certification

7TH - 13th AUGUST

Final reviewing of the submitted projects, grading them and providing them with certification.

VIII. Concluding Session

14TH AUGUST

- **Concluding the TSOC**
- **Announcement regarding the Campus Ambassador Program**
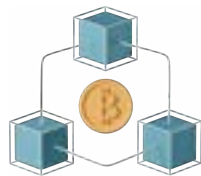
Bitcoin SV Ecosystem
Satoshi Vision

32 Tools

222 Products

150 Companies

44 Resources

33 Protocols

500 Verified Projects

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May 1st - End of July

[Click here to Register For Timechain Summer of Code](#)

Get ready for an exciting summer of coding at TSOC! Don't miss your chance to work with experienced developers, gain valuable blockchain experience, and contribute to cutting-edge projects.

[Apply now to join us for an unforgettable summer!](#)

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Thank You