

# HASEEB SAEED

Blockchain Developer and Researcher

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## EDUCATION

### Masters of Engineering in Software Engineering

École de technologie supérieure (ÉTS)

McGill (courses)

September 2024 – August 2026

Montreal, Canada

### Bachelor of Science in Computer Science

National University of Science and Technology (NUST)

September 2017 – May 2021

Islamabad, Pakistan

## SKILLS

<b>Programming Languages:</b>	Rust, Solidity, Python, HTML/CSS, JavaScript, C
<b>Blockchain Development:</b>	Cosmwasm, Cosmos SDK, Go-Ethereum (Geth)
<b>Artificial Intelligence:</b>	Machine Learning, Deep Learning, Reinforcement Learning
<b>Operating Systems:</b>	Linux, macOS
<b>Web Development:</b>	ReactJs, Bootstrap
<b>Misc:</b>	LaTeX, Git

## PROFESSIONAL EXPERIENCE

### Blockchain Engineer | *Bonusblock.io*

March 2024 – July 2024

- Built a system to rate wallets on EVM-based chains by analyzing transaction values and types, helping projects target high-value users.
- Developed a Transaction Decoder that fetches transactions, decode raw events using ABI data based on the protocols and then categorize the transaction (e.g., DeFi: lending, staking; NFTs: sales, buying)
- Collaborated with Machine Learning engineers to ensure the correct structuring of data for models, contributing to the data preparation and validation process.

### Blockchain Engineer | *Shadeprotocol.io*

August 2023 – Feb 2024

- Developed the *Liquidity Order Book*, a front-running-resistant, highly capital-efficient AMM protocol for high-volume trading.
- Achieved upto 20,000x liquidity efficiency compared to Uniswap V3.
- Integrated price range discretization and vertical liquidity aggregation for better performance.

### Lead Developer | *CryptoClerk.xyz*

January 2022 – October 2022

- Developed a non-custodial asset management platform enabling users to manage portfolios
- Implemented transaction history viewer, including Native tokens and Snip-20's
- Implemented a staking rewards calculator to assist users with crypto tax calculations.
- Created a permit generator, allowing users to securely share their private contract-related information with others by generating controlled access permissions.
- Built an intuitive interface to query secret smart contracts directly without the need for a command-line interface.

### Blockchain Engineer | *Secret Network Foundation*

June 2021 – December 2021

- Selected as a Secret Fellow to contribute full-time to the Secret Network ecosystem, focusing on CosmWasm-based Secret Contracts and developer tooling development. Tasked with maintaining and enhancing the *Secret Toolkit*, an open-source Rust package suite optimizing storage for Secret Contracts.

## PROJECTS

### GalacticPools.io | *Founder and Core Developer*

November 2022 – Present

- Launched a decentralized, open-source blockchain protocol to replace prize-linked savings accounts via DeFi.
- Secured pre-seed funding from Shade Protocol.

## TEACHING & RESEARCH EXPERIENCE

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### Course Designer & Lecturer | *NUST, Pakistan*

July 2023 – August 2023

- Designed and Taught an intensive course on Solidity programming as part of NUST's – High Impact Skills Development Program for GB Youth, also provides a comprehensive introduction to Blockchain architectures and consensus algorithms.

### Research Assistant - Supervised by [Dr.Taha Ali](#) | *NUST, Pakistan*

September 2019 – May 2021

- Modified Bitcoin Core to generate log files that capture real-time mempool states, enabling the rebuilding of snapshots at any given block height. Leveraged the generated logs to derive features that can be used by prediction models aimed at replacing Bitcoin's existing *estimatesmartfee* method. The new approach considers external factors like BTC price and hash rate for more accurate fee/latency predictions. [https://itsHaseebSaeed.com/pub/exploring\\_mempoolscape.pdf](https://itsHaseebSaeed.com/pub/exploring_mempoolscape.pdf)
- Architected an Ethereum-based energy metering system, employing cryptographic techniques for data integrity and authorization. Utilized web3.js and Solidity smart contracts to implement JSON-RPC-based secure communication. Leveraged ESP32 microcontrollers for real-time energy data monitoring, all transactions managed through Infura for robust network access. [https://itsHaseebSaeed.com/pub/blockchain\\_based\\_secure\\_metering\\_system.pdf](https://itsHaseebSaeed.com/pub/blockchain_based_secure_metering_system.pdf)

### Teaching Assistant - with [Dr.Fahad Javed](#) | *NUST, Pakistan*

January 2020 – June 2020

- Assisted in both the teaching and evaluation aspects of a Data Structures and Algorithms course, handling tasks ranging from explaining complex topics to students to grading assignments and exams.

## ACHIEVEMENT & AWARDS

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### HackSecret '23 | *Winner*

May 2023

- Implemented Liquidity Order Book
- Secured a \$5,000 USD cash prize, a \$20,000 USD and a 20,000 SHD (\$80,000 USD in May 2023) grant for further development.

### Secret University Developer on-boarding Grant

January 2023

### Stacks Hack4Impact Hackathon | *1st runner-up*

April 2021

## CO-CURRICULAR

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### Millennium Fellow, United Nations Academic Impact

2019

### Operations Lead, SEECS Academic Club

2017

### Executive Member, NUST Debating Society

2017