

HASEEB SAEED

Blockchain Developer and Researcher

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EDUCATION

Bachelors of Science in Computer Science

September 2017 – May 2021

National University of Science and Technology (NUST)

Islamabad, Pakistan

SKILLS

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

PROFESSIONAL EXPERIENCE

Blockchain Research and Development Engineer III | *Shade protocol*

August 2023 – Present

- Leading research at Shade Protocol on optimized reward distribution. Concurrently exploring methods to mitigate impermanent loss, also aimed at sustaining user engagement in volatile markets.
- This research is set to be operational by developing the Liquidity Book, an open-source, front-running-resistant, highly capital-efficient AMM protocol designed for optimized and flexible liquidity provision.

Founder and Core-Developer | *GalacticPools.io*

November 2022 – Present

- Founded a decentralized, open-source blockchain protocol to replace prize-linked savings accounts through Defi.
- Secured pre-seed funding from Shade Protocol.

Blockchain Engineer II | *Xavier Capitals*

January 2022 – October 2022

- Architected and implemented CryptoClerk, a comprehensive, non-custodial digital asset platform anchored on the Secret Network. The platform serves as a unified interface for user interactions with decentralized applications (dApps) and yield-generating opportunities. It incorporates advanced privacy features guaranteeing secure access to and sharing sensitive user data. Additionally, the platform has a specialized set of developer tools, simplifying smart contract interactions for non-developers by eliminating the need for command-line operations.

Blockchain Engineer I | *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.

TEACHING & RESEARCH EXPERIENCE

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
- 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

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

HackSecret '23 | *Winner*

May 2023

- Devised and implemented an innovative liquidity book, a front-running-resistant, highly capital-efficient AMM protocol designed for high-volume trading with minimal liquidity requirements. Introducing unique mechanisms like price range discretization and vertical liquidity aggregation. Achieving unprecedented liquidity efficiency, up to 20,000x compared to Uniswap V3.
- Introduced several unique features, including zero-slippage token swaps, surge pricing during volatile market periods, and the provision for liquidity providers to craft liquidity distributions strategically aligned with their trading strategies.
- Secured a \$5,000 cash prize, a \$20,000 grant, and a 20,000 SHD (\$80,000 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

Millennium Fellow, United Nations Academic Impact

2019

Operations Lead, SEECS Academic Club

2017

Executive Member, NUST Debating Society

2017