

# HASEEB SAEED

Blockchain Developer and Researcher

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## EDUCATION

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**Bachelors of Science in Computer Science**

September 2017 – May 2021

National University of Science and Technology (NUST)

Islamabad, Pakistan

## SKILLS

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<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>	React.js, Bootstrap
<b>Backend Development:</b>	Node.js, Express.js, and MongoDB
<b>Misc:</b>	LaTeX, Git

## PROFESSIONAL EXPERIENCE

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**Software Engineer | ONEX AI**

November 2023 – Present

- Develop and maintain advanced CosmWasm smart contracts to enhance blockchain application efficiency and security. Key contributions include optimizing transaction throughput and enhancing data privacy protocols
- Implemented large language models (LLMs) to enhance chatbot functionalities for clients, enabling sophisticated, context-aware interactions across customer service platforms. Projects include a customer support chatbot that reduces response times by 15% and increases user satisfaction.
- Architect and launch CryptoClerk, a user-centric, non-custodial digital asset platform on the Secret Network. This innovative platform integrates advanced privacy features and developer tools, improving UX for 2,000+ monthly users
- Design complex application features, mentor junior developers, and optimize code for efficiency. Tackle challenging software architecture problems, driving innovation and improving project management within the team.

**Junior Software engineer/Software Engineer | SoftVision Campus Bahawalpur**

June 2021 – November 2023

- Joined as a junior software engineer and was quickly promoted to software engineer due to exemplary performance.
- Tasked with maintaining the company's website, focusing on enhancing functionality and user interface.
- Expanded technical skillset by mastering back-end technologies, including Node.js, Express.js, and MongoDB.
- Transitioned to a key role in enhancing and managing the Learning Management System (LMS).
- Implemented scalable, secure, and efficient features in the LMS, significantly improving user experience. Achievements include a 20% increase in user satisfaction ratings and a 32% reduction in system latency, enhancing performance and speed.
- Designed and implemented an advanced analytics dashboard for educators and administrators, providing comprehensive insights into student performance, course engagement, and completion rates, enabling targeted instructional strategies and improved academic outcomes.
- Spearheaded the development of a mobile-compatible version of the LMS, ensuring full functionality across various devices and platforms. This initiative significantly increased student access, resulting in a 15% uptick in course engagement and completion from mobile users.

## 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. Syed 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

- 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.

**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