

HASEEB SAEED

Blockchain Developer and Researcher

📖 Punjab, Pakistan 📞 +923358148877 ✉ me@itsHaseebSaeed.com 🌐 itsHaseebSaeed.com

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:	React.js, Bootstrap
Backend Development:	Node.js, Express.js, and MongoDB
Misc:	LaTeX, Git

PROFESSIONAL EXPERIENCE

Software Engineer | ONEX AI

November 2023 – Present

I work on various AI and Blockchain projects, here's my day to day workflow

- Develop and maintain advanced CosmWasm and Solidity smart contracts.
- Auditing and optimizing smart contracts including optimizing transaction cost and enhancing data privacy
- Writing scripts to automate transactions calls
- Writing design docs
- Providing blockchain related support to other engineers in the team
- Research cutting-edge solutions
- Working with clients to integrate large language models (LLMs) and other AI models into their products
- Maintaining various clients products including language models (LLMs) API's into their products
- Mentoring junior engineers on the team

Projects that I've already worked on:

- 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, used by 2,000+ monthly users

Software Engineer/Junior Software Engineer | SoftVision College of Information Technology June 2021 – June 2023

- Initially Tasked with maintaining the company's website, focusing on enhancing functionality and user interface.
- Mastered key back-end technologies including Node.js, Express.js, and MongoDB, applying these skills to various projects to enhance system performance and capabilities.
- Transitioned to a key role in enhancing and managing the Learning Management System (LMS), directly contributing to more efficient and user-friendly educational experiences.
- Engineered and implemented scalable features in the LMS, achieving a 20% increase in user satisfaction rating and a 32% reduction in system latency, thereby enhancing performance and operational 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.
- Initiated and led the integration of real-time communication features into the LMS, such as chat a, which resulted in better communication between teachers and studetns
- Got promoted to software engineer due to exemplary performance.

TEACHING & RESEARCH EXPERIENCE

Course Designer & Lecturer | *NUST, Pakistan*

July 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
- 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.

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