

Anjan Roy

Lead Blockchain Engineer, Polygon Labs (pka Matic Network)

Objective :

To work in an environment that provides high standards of intellect, professionalism and moral ethics, solve problems that helps us in understanding mysteries of the nature, be part of a team that works towards growth of society and enhance my skill sets while adopting newer methodologies.

Email : hello@itzmeanjan.in
Website : <https://itzmeanjan.in>

Gender : Male
Nationality : Indian

Experience :

Lead Blockchain Engineer @ Polygon Labs (pka Matic Network) [July, 2020 - Present]

- Implemented hash functions and digital signatures (lattice and elliptic curve based) in Miden Assembly
- Optimised arithmetization friendly hash function Rescue Prime using AVX2, NEON & AVX512 intrinsics
- Implemented fast merklization with BLAKE3, Rescue Prime targeting GPGPU - using SYCL
- Designed & built distributed, horizontally scalable Pub/Sub system, over TCP — solving C100K
- Lead development of blockchain data indexer, with Go, GraphQL API, ProtoBuf snapshotting
- Wrote Solidity contracts powering L1 <-> L2 asset transfer — secured > \$7B back then
- Engineered first open-source distributed, scalable blockchain mempool analyser — using libp2p
- Helped develop KZG polynomial commitment based blockchain using Rust, Substrate
- Designed fast-finality, cross-blockchain asset transfer bridge for one ecosystem project

Freelance Developer [July, 2018 - June, 2020]

- Wrote custom ERC20 contract (with locking, staking) for leading marketplace
- Reduced latency by 53% after introducing Memcached, Redis in existing service
- Built JSON-RPC/ REST services with ExpressJS, PostgreSQL
- Helped researcher explore large dataset using Matplotlib, Seaborn, Numpy
- Helped client target large user base by building multi-platform app in Flutter

Academics :

Course Name	University	Year of Passing	GPA
M.Sc. (Computer Science)	Visva-Bharati, Santiniketan, India	2020	8.89
B.Sc. (Computer Science)	Visva-Bharati, Santiniketan, India	2018	8.87

Interest :

Large Scale P2P Networks; Applied Cryptography - Symmetric, Public Key and Post-Quantum

Skills :

Responsibility, Patience, Diligence