

Skanda Bhat

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EXPERIENCE

OPEN SOURCE | ETHEREUM & L2 INFRASTRUCTURE

Aug 2024 – Present

- **Reth & EIP-7745:** Implemented proof-of-concept for accelerated log indexing in Reth ([PR #18305](#)); designed new MDBX tables and sync stages to improve log retrieval performance and informed EIP refinement via benchmarking.
- **MEV Simulation:** Added the `mev_simBundle` RPC method to Reth for bundle simulation ([PR #11252](#), [#12218](#)).
- **Execution Extensions (ExEx):** Enabled early Reth ExEx support in [rindexer](#) for in-process indexing ([PR #166](#)).
- **L2 Preconfirm Infrastructure:** Built [alloy-flashblocks](#), a Rust client for streaming Base L2 flashblocks and querying preconfirmation state via Alloy.
- **Prediction Markets & Agent Tooling:** Authored [polymarket-ctf-utils](#) (UMA Conditional Token Framework utilities in Rust) and [evm-agent-skills](#), enabling agent-driven Ethereum JSON-RPC workflows.

RAZOR NETWORK | FOUNDING ENGINEER, PROTOCOL ARCHITECT

Oct 2020 – Aug 2024

- Designed and implemented a decentralized Oracle protocol on the EVM, engineering a custom Proof-of-Stake consensus mechanism for trustless on-chain data validation.
- Architected cross-chain data bridges to Polygon, XDC, and Optimism, researching and implementing Threshold Cryptography and SGX enclaves to secure data transport.
- Orchestrated the Mainnet launch on SKALE Network, handling node infrastructure setup and validator coordination for institutional stakers.
- Led the smart contract security lifecycle, managing internal fuzzing campaigns and coordinating external audits with Halborn and SlowMist to secure high-TVL contracts.

ATHER ENERGY | SENIOR SOFTWARE ENGINEER

Aug 2019 - Sept 2020

- Developed real-time vehicle intelligence features for the on-vehicle Linux dashboard, optimizing data rendering for high-throughput sensor streams.

SIGNEASY | PRODUCT ENGINEER

Feb 2017 – Aug 2019

- Engineered full-stack features for a high-volume e-signature platform, optimizing application reliability and scaling for enterprise user loads.

PUBLICATIONS

(IEEE) SENTIMENT ANALYSIS FOR SARCASM DETECTION ON STREAMING SHORT TEXT DATA

DOI: 10.1109/ICKEA.2017.8169892

Explored various classification algorithms to detect sarcasm in tweets. Achieved near 80% accuracy on a manually annotated dataset of 3,000 tweets.

VOLUNTEERING AND SPEAKING

MENTOR, TOGETHER.FUND(NOV 2022)

Guided a cohort of 10 crypto startups on tech stack decisions, hiring, and engineering culture in the blockchain industry.

HOBBY PROJECTS

SIMPLEHUMAN.EMAIL

A micro-SaaS platform that enhances Gmail shortcuts and refines the interface for improved usability.

SKILLS

Languages

Rust (Expert), Solidity, Go, Python

Core Protocol

Reth Internals, MDBX/DB Optimization, EVM Opcodes, Libp2p

Infrastructure

Flashbots/MEV Architecture, Alloy-rs, Foundry, ExEx (Execution Extensions)