

Rohan Gupta — Cryptography & Vector Commitments Researcher

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Professional Summary

Applied cryptography student; commitment schemes, succinct proofs, authenticated accumulators. Translates IACR papers into prototype code. Fits SOLSTICE's multi-VC comparison needs.

Key Skills

- Cryptographic / Vector Commitments (Hyperproof, Reckle Tree concepts)
- Golang + Rust pairing libs (bn256, bls12-381, arkworks familiarity)
- Proof size / generation / verification benchmarking
- Parameter trade-off evaluation

Relevant Coursework: Modern Cryptography; Blockchain Security; Probabilistic Proof Systems.

Selected Projects

- Polynomial Commitment Playground (KZG, IPA, Dark)
- Golang SNARK Demo (groth16 verify CLI)
- Ethereum Trie Explorer (visualize MPT)

Contribution to SOLSTICE

Model security assumptions; implement VC adapters; gather proof metrics.