

VIRAJ BHARTIYA

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PROFESSIONAL SUMMARY

Backend Engineer with strong systems focus and open-source experience at Protocol Labs. Built scalable infrastructure with Go, Rust, and Docker, contributed to production-grade blockchain tooling (Lotus, Forest), and orchestrated distributed compute workflows. Familiar with observability stacks and performance profiling. Seeking Backend/Infrastructure/Analyst roles.

EDUCATION

B.Tech, Computer Engineering

K.J. Somaiya College of Engineering, Mumbai

Expected Graduation: Sept 2027

Relevant Coursework: OS, Distributed Systems, Cloud Computing, Algorithms, DBMS

TECHNICAL SKILLS

Languages	Go, Rust, TypeScript, JavaScript, Python, Dart
Backend	Node.js, Express.js, PostgreSQL, gRPC, REST, WebSockets
Infra	Docker, GitHub Actions, CI/CD, IPFS, AWS (EC2, S3, Lambda, CloudWatch)
Observability	Prometheus, Grafana, Logging, Monitoring, Alerting, Jaeger
Systems	Distributed Systems, Concurrency, Event-Driven Architectures
Tools	Redis, NGINX, Git, Ollama, Hardhat, Ethers.js, Postman, Figma

OPEN SOURCE EXPERIENCE — PROTOCOL LABS

Contributor (Lotus, Forest, Synapse SDK)

Sept 2024 – Present

Go, Rust, TypeScript, Filecoin

- 15+ PRs across Lotus and Forest; contributed to ChainIndexer, RPC methods, and proof toolchains.
- Built PDP Explorer (Go) verifying 2M+ daily proofs; used by 4+ Filecoin ecosystem teams.
- Integrated and extended Synapse SDK (npm) for storage clients, deal retrieval, and task orchestration.
- Reviewed community PRs, coordinated async with global maintainers via RFCs and GitHub Issues.

SYSTEMS PROJECTS

Parity Protocol

github.com/theblitlabs/parity-protocol

- Built full orchestration layer for LLM inference and federated training across 20+ Dockerized runners.
- Cut model convergence time 32% using parallel aggregation and dynamic runner allocation.
- CLI handled 200+ AI jobs in live hackathon testnet; implemented staking, slashing, and reputation scoring on-chain.

MapReduce in Go and Rust

github.com/virajbhartiya/map-reduce

- Master-Worker compute framework using gRPC + concurrency primitives; achieved 3.2x parallel speedup on 10-node testbed.
- Implemented retry + failure handling logic for partial job loss scenarios under simulated node churn.

Trading Engine

github.com/virajbhartiya/Stock-trader-Bot

- Backtested RSI/EMA crossover strategy on equities; yielded 12.4% return in 6 weeks, beating benchmark by 7.3%.
- Built interactive CLI with pandas-based metrics and matplotlib charts for trade insight visualization.

WORK EXPERIENCE

Software Engineer Intern

TopClub — Remote

Jan 2024 – Sept 2024

- Built scalable Flutter + React apps with real-time updates; served 10K+ monthly active users.
- Designed REST APIs and Lambda functions on AWS; handled 100K+ weekly requests under 300ms median latency.
- Aggregated data from 15+ third-party APIs; implemented auto-repair pipelines improving sync consistency by 28%.

HACKATHON HIGHLIGHTS

EthIndia 2024 — Built decentralized file storage with on-chain proof gen; selected from 3K+ developers.

Unfold 2024 — GitHub-integrated crypto bounty protocol; won 1st out of 120+ teams.

Prakalpa 2025 — National engineering project competition; software track winner from 250+ B.Tech entries.