

VIRAJ BHARTIYA

Mumbai, Maharashtra, India — +91 8485837871 — vlbhartiya@gmail.com
linkedin.com/in/viraj-bhartiya — virajbhartiya.com

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.

EDUCATION

B.Tech, Computer Engineering

K.J. Somaiya College of Engineering, Mumbai

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

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 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

Open Source Engineer Protocol Labs — Remote
Sept 2024 – Present

- Contributed to production-grade Filecoin tooling: Lotus (Go) and Forest (Rust), with 15+ PRs merged.
- Built and maintained ‘PDP Explorer’, a Go-based proof validator that verified over 2M proofs daily.
- Extended Synapse SDK to support storage deal negotiation, retrieval, and task orchestration in TypeScript.
- Led async collaboration across Filecoin teams; triaged issues, reviewed PRs, and co-authored improvement RFCs.

Lead Software Engineer MGEPL — Mumbai
March 2024 – Present

- Built a tenant-based Inventory Management SaaS used by multi-brand retailers to track stock, manage vendors, and reconcile billing across locations.
- Engineered an end-to-end order flow system with status tracking, delivery SLAs, and real-time updates via WebSockets and Firebase.

Founding Software Engineer 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.