

# VIRAJ BHARTIYA

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## ACHIEVEMENTS

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- **EthIndia 2024** — Created *ThreeDrive*, a decentralized storage layer with zero-knowledge proof generation. Awarded Walrus Protocol track by Sui Foundation.
- **Unfold 2024** — Delivered *OpenFund*, a GitHub-integrated crypto bounty protocol. Won 1st prize among 120+ teams; awarded by Nethermind, Okto, and Rabble Tracks.
- **Prakalpa 2025** — Presented *Parity Protocol*, a decentralized compute execution framework. Won Best Software Track at national-level competition.
- **Filecoin Dev Summit 2025** — Demoed *HotVault*, a Provable Data Possession (PDP) client. Showcased encrypted chunking, proof validation, and rapid retrievals.

## EDUCATION

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**B.Tech in Computer Engineering**, K.J. Somaiya College of Engineering, Mumbai *Expected Sept 2027*

## WORK EXPERIENCE

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**Open Source Engineer, Protocol Labs — Remote** *Sept 2024 – Present*

- Contributed 15+ PRs to Filecoin repos (Lotus, Forest) for RPC extension, proof validation, and indexing.
- Designed PDP Explorer in Go to validate 2M proofs/day. Enabled fault-tolerant distributed execution.
- Enhanced Synapse SDK with deal orchestration features; deployed across TypeScript client stack.
- Authored RFCs and led performance-critical reviews across asynchronous workflows.

**Lead Software Engineer, MGEPL — Mumbai, India** *Mar 2024 – Present*

- Built multi-tenant inventory SaaS with real-time sync, billing, and vendor workflows.
- Delivered modular e-commerce storefronts with theme customization and UI schema logic.
- Built Service-Level Agreement (SLA) pipeline with Firebase and WebSockets; reduced alert latency by 30%.

**Founding Engineer, TopClub — Remote** *Jan 2024 – Sept 2024*

- Engineered Flutter and React apps with live sync, scaled to 10K+ Monthly Active Users (MAUs).
- Developed RESTful APIs and AWS Lambdas processing 100K+ weekly requests under 300ms.
- Integrated 15+ APIs with fallback and repair logic; increased sync reliability by 28%.

## TECHNICAL PROJECTS

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**Parity Protocol** [github.com/theblitlabs/parity-protocol](https://github.com/theblitlabs/parity-protocol)  
*Go, TypeScript, Docker, PostgreSQL*

- Orchestrated LLM inference across 20+ containerized nodes; enforced on-chain incentive logic.
- Improved model convergence by 32% using workload-based runner allocation.

**MapReduce Engine (Go/Rust)** [github.com/virajbhartiya/map-reduce](https://github.com/virajbhartiya/map-reduce)  
*Go, Rust, Google Remote Procedure Call (gRPC), Protobuf*

- Built gRPC-based master-worker system with 3.2x parallel execution speedup.
- Achieved fault recovery after 4/7 node failures without data loss.

**Trading Bot** [github.com/virajbhartiya/Stock-trader-Bot](https://github.com/virajbhartiya/Stock-trader-Bot)  
*Python, Pandas, Matplotlib*

- Backtested RSI/EMA-based strategy with 12.4% ROI; implemented CLI visualizations for trade actions.

## TECHNICAL SKILLS

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- **Languages:** Go, Rust, TypeScript, JavaScript, Python, Dart
- **Frameworks:** Node.js, Express.js, Flutter, React, PostgreSQL, RESTful APIs, Google Remote Procedure Call (gRPC)
- **Cloud:** AWS (EC2, Lambda, S3, CloudWatch), Firebase, Docker, GitHub Actions
- **Infra:** IPFS, CI/CD, Redis, NGINX, WebSockets, Prometheus, Grafana, Jaeger
- **Systems:** Distributed Systems, Microservices, API Integration, Concurrency, Observability
- **Tools:** Git, Figma, Postman, Hardhat, Ethers.js, Ollama