Ashish Kumar Mishra

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Senior Backend Engineer with 6+ years of experience designing and building **high-performance distributed systems** and **backend services** in Go and Node.js. Proven track record of owning systems end-to-end, from architecture and implementation to production deployment and scaling. Strong background in concurrency, networking, API design, and data pipelines, with experience operating systems in startup environments. Open-source contributor with a focus on reliability, performance, and maintainability.

Key Skills

- **Programming Languages:** GoLang, JavaScript, Solidity, Rust (*novice*)
- **Backend & Systems:** Distributed Systems, Concurrency, Networking, API Design (REST), Service Architecture, Background Workers
- **Data & Storage:** PostgreSQL, NoSQL Databases, Key-Value Stores, Data Indexing Concepts
- **Infrastructure & Tooling:** Docker, CI/CD, Git, Linux, Observability Basics (logs, metrics)
- **Architecture & Practices:** System Design, Scalability, Fault Tolerance, Agile Development

Professional Experience

Senior Software Engineer
Interstellar Research Pte Ltd | May 2021 - Present

- Designed and built a **high-throughput backend service** in Go, responsible for ingesting, validating, and processing large volumes of external data with strict correctness guarantees.
- Owned the system end-to-end, including **service architecture, concurrency model, API design, and deployment workflows**.
- Built a **distributed peer-to-peer communication layer** using libp2p, focusing on message reliability, fault tolerance, and efficient data propagation.
- Implemented cryptographic verification and signing workflows to ensure **data integrity and authenticity** across distributed components.
- Optimized critical paths to improve performance and reduce processing latency under load.
- Collaborated closely with product and protocol stakeholders to evolve system requirements and deliver production-ready features.
- Actively contributed to and maintained open-source repositories used by external developers.

Blockchain Developer
Param.Network | Jan 2019 - May 2021

- Developed backend services for an **enterprise-facing platform**, supporting authentication, integrations, and transactional workflows.
- Built and maintained **REST APIs** using Node.js, ensuring backward compatibility and reliability for production clients.
- Integrated third-party and government APIs (e-Invoice systems) with strict validation and error-handling requirements.

- Worked closely with frontend engineers to define clean API contracts and improve system usability.
- Participated in pilots with large enterprise clients, translating real-world requirements into scalable backend solutions.

Open Source Contributions & Projects

- **Oracle-node**: Official node for running stakers in Golang. This supports the decentralized oracle of razor.network. GitHub Repository
- **Feluda**: A Rust-based command-line tool that analyzes the dependencies of a project, notes down their licenses, and flags any permissions that restrict personal or commercial usage or are incompatible with your project's license. GitHub Repository
- **PyCon India 2025 Website**: PyCon India 2025 website, built with 11ty and Tailwind CSS. GitHub Repository
- **DHT Implementation:** A distributed hash table (DHT) implementation using libp2p to enable decentralized storage and lookups. GitHub Repository

Education

Bachelor of Engineering (BE)
Dayananda Sagar College of Engineering, Bangalore | Visvesvaraya Technological University | 9.32/10 | 2019

Interests

- Contributing to open-source blockchain projects.
- Researching advancements in blockchain protocols and distributed systems.
- Innovating in Web3 technologies and entrepreneurial ventures.