Rishikesh Gunjal

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Education

Year	Degree / Certificate	Institute / Board
2020–2024	Bachelor of Technology	Indian Institute of technology Bombay
2020	Class XII (Maharashtra State Board)	St.Lawrence High School, Nashik
2018	Class X (ICSE)	Ryan International School

Academics

- Secured an All India Rank of **1236** in prestigious **JEE Advanced** among **0.15** million appeared candidates
- Achieved **95% score** in Hyperledger Fabric Certified Practitioner **(HFCP)** exam by **Linux Foundation**
- Awarded the **Supreme Badge** in NPCI's in-house Hackathon by developing advanced Smart Contracts in Golang

Professional Experience

NPCI (National Payments Corporation of India) | Software Developer *(Jul '24 – Present)*

Unified Market Interface	• Operated at production scale, reliably processing **500+ crore INR** worth of settlement transactions daily with strict consistency, fault tolerance, & correctness. • Implemented a distributed settlement system using **Two-Phase Commit (2PC)** to ensure atomicity & consistency across **17+** financial participants. • Architected an automated Scavenger-driven reconciliation service running every **60** seconds, reducing manual intervention for orphaned, timed out transactions. • Engineered secure **Identity** and **Asset** registries, ensuring unique participant identification and verifiable identities with strong cryptographic guarantees.
Hyperledger Fabric	• Reduced read latency by **40-60%**, increased write throughput by **2-3x**, and unifying on-chain/off-chain DB by replacing Fabric's CouchDB with YugabyteDB. • Added native **Kafka** event publishing support to peers, removing dependency on a separate event translation layer, enabling low-latency event-driven consumers. • Achieved **7.42%** TPS gain by implementing waiting strategies enabling lagging peers to assume leadership,in collaboration with **Prof.Yogesh Simmhan(IISc)**.

Open Source Contribution | Propeller & Vegeta *('25)*

- Prepared a Loadgenerator for trace-driven benchmarking, replaying production workloads with **99%** accuracy.
- Co-authored IISc research paper and open-sourced IGNITR, a trace-driven Load Generator released via NPCI.
- Architected bi-directional streaming support in **Propeller**, enabling **topic-based** client to backend and client to client event routing with acknowledgment, improving flexibility of distributed messaging flows built over gRPC.

Log Sentinel | Self-Project *(Feb '25)*

- Implemented a scalable log ingestion and alerting pipeline leveraging **Golang**, **Kafka**, and **Redis** to detect and respond to error spikes in real time, improving system reliability and observability across multiple services.

Software Engineering Internships | KEEV,We Listen Foundation *(May '22 – June '22)*

- Built a **ReactJS** frontend with **WebSocket** integration, enabling real-time data streams with sub-**100ms** latency.
- Engineered a custom **DiscordJS** bot for the We Listen foundation, automating workflows for **1,000+** members.

Technical Skills

Languages & Tooling	Core CS Concepts	Distributed Systems & Databases
Golang, C++, Docker, Git, Vegeta	Data Structures and Algorithms, Operating Systems	Hyperledger Fabric, Kafka, Redis, Yugabyte, gRPC, Propeller