

Ravi Shankar

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EXPERIENCE

- **Oracle Cloud Infrastructure (OCI)** Bangalore, Hybrid
April 2024 - Present
 - *Senior Software Engineer (IC3)*
 - **Rack Decommission Tool:** Reduced rack decommission TAT by **50%** (**60 → 30 days**) by automating manual workflows and introducing centralized tracking + forecasting across infra, networking, hardware, and DC ops.
 - **ARTS (Stargate/OpenAI):** Designed and built **Terraform-based IaC** for provisioning internal services, ensuring reproducible, secure deployments. Led SCADA integration for **monitoring 65,000+ GPUs**, defining telemetry ingestion pipelines, alerting mechanisms, and real-time visibility tools. Architected internal tooling that aggregates GPU health, temperature, fault events, and connectivity data for reliability engineering teams.
 - **Burninator:** Increased GPU ingestion throughput **3x** by **parallelizing initialization flows**, improving execution graphs, and eliminating sequential bottlenecks. Identified and fixed mission-critical issues around PXE booting, NIC bring-up, GPU wiring, and telemetry agent deployment. Built operator-friendly workflows and runbooks that **reduced human intervention by around 70%** and enabled automation-first datacenter operations.
- **Trinkerr** Bangalore
Oct 2021 - Oct 2022
 - *Senior Software Engineer*
 - **Leadership and Ownership:** Led a 3-engineer team responsible for backend services powering the retail trading app used by **thousands(10,000)** of **daily active users**. Introduced engineering processes including code review discipline, test coverage strategy, and release automation.
 - **Portfolio Service:** Scaled NAV ingestion to **500K+** portfolios via a dedicated microservice with a 20-way partitioned Lambda pipeline, bulk reads/writes, symbol-based caching, and a read-replica-backed MongoDB design, plus resilience (circuit breakers, retry jitter) and ingestion observability.
 - **Notification Service:** Designed and scaled the real-time notification system for copy trading, delivering **10×** throughput via batched fan-out, SQS-backed dispatching, and distributed workers. Added in-app notification management, delivery-status tracking, and robust retry/circuit-breaker logic to cut peak-load latency and improve reliability.
- **Flynote** Bangalore
Aug 2019 - Oct 2021
 - *Software Engineer*
 - **Inventory Service:** Built the core inventory platform **tracking 100,000+ hotels & activities** with search, filtering, supplier mapping, and geo-tag features. Designed ETL pipelines to ingest third-party vendor data and maintain consistency across suppliers.
 - **Vibecity:** Designed and developed full e-commerce backend for vibecity.com including catalog browsing, checkout flows, user sessions, payment abstraction, and order lifecycle.
- **Urban Company** Gurugram
Jan 2017 - Aug 2019
 - *Software Engineer*
 - **Matchmaking Service:** Reduced manual ops by 40% by redesigning matching logic using service-provider skill vectors, availability windows, and geo-distance heuristics.
 - **Communication service:** Fully owned the SMS/Email communication microservice, handling millions of messages monthly. Added templating, logging, SLA monitoring, and failover paths.
 - **Internationalization:** Internationalized backend services for Dubai launch, including currency conversion, localized cron schedules, timezone-aware scheduling, and region-specific business logic.
 - **Fraud Reduction:** **Reduced fraud cases by 95%** by introducing OTP-based service start and **geofenced** provider verification.
 - **Observability & Alerts:** Built first-gen observability pipeline using AWS Lambda, ElasticSearch log scraping, metric analysis, and automated alerting for slow APIs and DB hotspots.
- **THB** Gurugram
May 2016 - Jan 2017
 - *Software Engineer (Contract Role)*
 - **Microservices:** Refactored a monolithic backend into microservices, introducing domain boundaries, async communication, and independent deployability. Developed communication and authentication microservices.
 - **Bug Reduction:** Reduced bugs by more than 50% by stabilising BE code by enforcing strict type checking on JavaScript codebase (By using TypeScript, and linters)

SKILLS SUMMARY

- **Core Competencies:** Distributed Systems, High-scale Backend Engineering, Datacenter Automation, GPU Ingestion Pipelines, Telemetry & Observability, System Design, IaC, Micronaut, Microservices, Node.js
- **Languages:** Java, JavaScript, TypeScript, Python(Working knowledge), Basic Rust, Terraform
- **Cloud & Infra:** AWS, GCP, Oracle Cloud Infrastructure (OCI), Kubernetes, Docker, CI/CD, Linux Systems
- **Data and Storage:** MongoDB, PostgreSQL (basics), Redis, Message Queues (SQS, Pub/Sub)

EDUCATION

- **Motilal Nehru National Institute of Technology (NIT) Allahabad** Prayagraj, Allahabad, India
July 2012 - April 2016
 - *Bachelor of Technology - Computer Science*

Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Networking, Databases