

ANUBHAV SINHA

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SUMMARY

Full-Stack Software Engineer with **3+ years** of industry experience across **Oracle and Microsoft**, specializing in **high-throughput distributed systems** and full-stack product delivery. Backend-leaning across the stack — equally comfortable designing **scalable low-latency microservices** and shipping responsive, **performant frontend**. Proven ability to own cross-cutting concerns: **in-memory caching**, API design, Kubernetes deployments, and UI performance.

EXPERIENCE

Oracle

Software Engineer

Bangalore, Karnataka

Aug 2023 – Present

- Designed and delivered a **horizontally scalable event streaming pipeline (Kafka)** to decouple a high-volume legacy processing path, using **feature-flag-driven cutover** (Helm toggles) to enable **zero-downtime migration** and reduce upstream database load by **35%**.
- Integrated a **protocol translation layer** into a legacy monolith to decouple core business logic from evolving network interfaces, enabling the system to absorb future protocol changes without service-layer modifications, sustaining **10k RPS at under 5ms latency overhead**.
- Architected **configurable alerting workflows with deduplication logic**, reducing redundant Kafka message volume by **27%**; redesigned service mounting and initialization mechanisms to accelerate deployment pipelines by **25%** while maintaining full backward compatibility.
- Led **frontend modernization** of a legacy enterprise dashboard, migrating to **Next.js** and a modular component architecture — improving perceived load time by **14%** and increasing user task-completion rate by **20%**.
- Built **RESTful APIs and reusable UI components** to automate high-variety file ingestion workflows, cutting manual processing time by **95%**; leveraged **Oracle Coherence distributed caching** to serve real-time records at low latency under high concurrency.
- Owned **production reliability** across **100+ incidents (39 P0/P1)**, reducing critical backlog by **31%**; proactively documented root-cause patterns and authored **runbooks** to prevent recurrence of top failure classes.

Software Engineer Intern

Jan 2023 – Jul 2023

- Spearheaded a **Java 8-to-21 migration**, resolving transitive dependency conflicts to eliminate **100% of critical CVEs**; built an internal CLI utility to abstract complex build commands, cutting build time by **20%** and reducing onboarding friction for new contributors.
- Authored a **comprehensive test suite** for a newly decoupled microservice (Groovy/Spock), raising code coverage from **56% to 92%** and establishing a testing baseline for the service.
- Executed and validated **hybrid deployments** (on-prem and Kubernetes via Helm) for a high-throughput service, running load tests to confirm **sub-50ms latency at peak concurrency**.

Tech Stack — Java, JavaScript, Spring, Helidon, React.js, Next.js, Kafka, Groovy, Spock, Cucumber, Kubernetes, Helm

Microsoft

Software Engineer Intern

Noida, Uttar Pradesh

May 2022 – Jul 2022

- Resolved a **performance regression** in Microsoft Loop's real-time collaboration layer, reducing **round-trip latency by 25%** — directly improving editing responsiveness for users on the collaborative canvas.
- Extended the **people picker component** with configurable schema support, enabling flexible data integration for custom user contexts and reducing associated processing overhead by **35%**.
- Re-implemented **100% text-editing functionality** following a breaking dependency removal, systematically identifying and resolving regressions to restore feature parity — eliminating a critical blocker for the Loop editing experience.

Tech Stack — TypeScript, React.js

SKILLS

- Languages:** Java, JavaScript, TypeScript, C/C++, Python, Groovy, HTML/CSS
- Backend & Frameworks:** Spring Boot, Spring, Helidon, Node.js, Express, REST APIs
- Frontend:** React.js, Next.js, Tailwind CSS, Bootstrap
- Distributed Systems:** Apache Kafka, Oracle Coherence, Microservices, Event-Driven Architecture
- Databases:** Oracle NoSQL, MySQL, Postgress, MongoDB, Firebase
- Infrastructure:** Kubernetes, Docker, Helm, CI/CD, Generative AI, Oracle Cloud Infrastructure
- Testing:** Spock, Cucumber, Unit Testing, Integration Testing
- Core Strengths:** System Design Principles, API Design, Performance Optimization, Problem Solving, Data Structures, Algorithms

PROJECTS

Resonance 🌐 — *Next.js, Node.js, Express, MongoDB*

December 2022

- Created the full-stack MVP in 10 weeks: set up JWT auth, protected routes (React Context API), and backend middleware for request handling, auth flow, validation, and error handling; primary owner of front-end and middleware.
- Built RESTful APIs and data model for internship listings (15 API endpoints, 20+ React components); applied parameterized queries, server-side pagination, and MongoDB indexing to support efficient filtering and large result sets.

EDUCATION

Birla Institute of Technology, Mesra | Ranchi, JH

B.Tech. in Information Technology

Aug 2019 – May 2023

GPA: 8.82

ACHIEVEMENTS

- Rated 1800+ and solved 700+** LeetCode problems. Global Rank 135 in CodeChef September Long Challenge (6k+ participants).
- Drove **60+ member team as Vice-chairman** of IEEE (student body), managing events, budgets, workshops, and external collaborations
- Winner, Student Branch Associates Program (AISYWL'20) — IEEE Delhi Section and Winner, IEEE LEAD'20 web development contest.