

Rohan Kansara

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Professional Experience:

SDE-2 (Senior Software Engineer, Tech Lead) at Amazon (October 2023 – Present)

- Leading a team of 10+ SDEs in designing, building multi-year distributed architecture project with end-to-end (Architect, HLD, LLD, monitoring, documentation observability, operational excellence) ownership. Designing a horizontally scalable architecture that can support peak traffic of millions of transactions per minute with a single digit millisecond latency. Contributing to 3-5 year architecture plan, Operating plan for the team.
- Responsible for technical leadership and driving software best practices such as security, quality, engineering & operational excellence, etc for multiple projects in Kindle teams. Worked on migrating all the micro services from legacy Amazon Messaging Platform (AMP) to AWS SQS-SNS based architecture for micro services communication. Drove efforts for getting all clients migrated without any downtime/impact in a seamless manner. This allowed our team to reduce infrastructure costs by a huge number, resulted in reduced operational load and ease of debugging.
- Driving VP level goal to implement software/service to migrate existing metrics migration strategy from DCM to new Fast Metrics, documenting the migration process which helped multiple teams in kindle org to smoothly migrate without losing any metrics, reducing on call tickets by 60+%.
- Unifying usecases of image, coverImage publishing into single orchestrator micro-service for all digital products (ebooks, android apps, digital bundles, alexa apps etc). Initiated weekly OE (Operational Excellence) reviews to go through tickets, dashboards, metrics tracking, policy engine risks, runbook, COE (Correction of Errors) action items, which led to a 70% reduction in high sev issues, 50% reduction in low severity issues.
- Designing, implementing UI strategy & platform for front end applications across the org with micro-front end based architecture which helped all teams build various dashboards as independent applications on single user facing console. The platform takes care of all cross cutting concerns like authNZ, logging, metrics, backend interactions, deployments, etc. Mentoring multiple SDEs across orgs, project lead for SDE interns
- Leading code & system peer design reviews to ensure quality, testability, extensibility, design patterns & best practices (DRY, SOLID) are followed.
- Actively driving weekly design, office hours to review the designs done by SDE-1/2s in the team. Conducting technical interviews for team, orgs

Member of Technical Staff (SDE-2) at Oracle (Jan 2023 – October 2023)

- Developed user facing control plane REST APIs to expose Oracle cloud services in public cloud (AWS, Azure, GCP) end-to-end (Architect, design, HLD, LLD, code, deployment, testing, documentation, monitoring, observability, operations, metrics, analytics, telemetry, maintenance) ownership
- Built large scale cloud distributed system (SQS, Kafka), complex services at global scale, data mining, concurrent, scalable, highly performant, reliable, secure features. Leveraging performance, profiling tools to identify hot spots, bottlenecks across software boundaries. Reduced API latency using caching (Redis, Memcached), NoSQL Key Value store, 3s to < 0.1ms. Mentoring junior/new engineers (45+), participating in hiring process
- Driving efforts across product groups, business units. Partnering with engineers, product managers, partner teams to deliver features with the right overall design, architecture. Collaborating, socializing driving cross-team technical initiatives in our orgs. Translating data into meaningful insights.
- Performing 24x7/on-call production support (150M+ MAU), resolved 80+ tickets (Sev2+), bugs, optimization, contributed to runbook
- Refactored large code base to increase efficiency, reliability, readability, reusability & adaptability there by reducing code smell & bugs by 50%
- Reduced change deployment time (CI/CD) by 80% by creating automation scripts(python), internal tool, Increased code coverage from 40 to 90%.
- Implemented automated (Python) alerts for API exceptions, errors thrown (using Elasticsearch, Grafana), latency spike resulting in 65% less failures
- Tech Stack: Java, Spring Boot, System Design, Microservices, ReactJS, SQL|NoSQL, Kubernetes, Linux, AI, ML, TDD, Azure, AWS, GCP, OCI

Software Engineer at Deutsche Bank (Sep 2020-Jan 2023)

- Worked on Cash Settlement application in IB Tech business (19M+ trades settled daily, 15B+ revenue). Worked on fast-paced/start-up, high performance & scalable system, distributed architecture, data intensive (TB/PB), multithreaded, cloud native, event driven, greenfield projects.
- Lead and completely owned various payment microservices, requirements (with key stakeholders), service architecture design, HLD, LLD, development, execution, unit testing, deployment, documentation & maintenance leading to decommission vendor applications saving 5B+ cost.
- Scaled, & made fault tolerant APIs, services to support trade activities (book, confirmation, settlement, payment, reg reporting) (3B+ requests) globally. Implemented automated error processing of trades stuck in exception state (using Kafka) there by reducing traders complaint by 75%
- Contributed to open-source community for debezium project, conducted knowledge/tech talks with team, extended orgs. Articulated complex technical concepts to management, stakeholders, business/product owners, leading meetings & subject matter expert for various Microservices.
- Developed various responsive web UI screens, charts, reports & reusable components in frontend using React JS & Redux while collaborating with UX team. Worked on database design, optimized database queries resulting in 50% decrease of query time. Triaged & debugged complex production issues & solved challenging design problem. Followed SDLC best practices, working in Agile/Scrum development sprints & tracking in JIRA
- Tech Stack: Java, System Design (High Level Design, Low Level Design), Backend Dev, Restful Web Services, Microservices, Spring Boot, GraphQL, GRPC, Object Oriented Design (OOD), SOA, Spring Cloud, Python, Quarkus, Kafka, React JS, Redux, BDD, J2EE, Junit, TDD, GCP

Software Developer IIOT Intern at ACG World (Aug 2020-Sep 2020)

- Developed new user-facing features using React.js & Redux for web based IIoT app. This application offered an easy-to-use digital platform to analyze the productivity rate of their capsule manufacturing units & generate weekly reports over various production parameters, reducing manual efforts by 80%. Translated designs and UX wireframes into high quality, reusable components and built front-end library for future use
- Tech Stack: React.js, Redux, JavaScript, AWS, Webpack, Enzyme, debugging tools (Chrome Dev tool) & followed TDD approach using Jest

Software Developer Intern at TIAA (Jun 2019-Aug 2019)

- Developed Rest APIs to display the fund records from (Active/Legacy) contracts which are over allocated and download the detailed excel/pdf report, reducing the manual effort of 30 min to < 1sec, saving more than 400 man hours/week & eliminating manual errors.
- Focus was on solving business problem via technologies (HTML, CSS, jQuery, JavaScript, Java, Spring Boot, JPA, Sonarlint, Cucumber, AWS). Followed Test Driven Development, wrote unit & integration tests, code coverage > 95%, functional testing, used selenium for test automation

Technical Skills:

- Languages: Java, Python, DSA, JavaScript, TypeScript, SQL, RDBMS, NoSQL (Cassandra/MongoDB, Cosmos DB), C++, C#, C, X++
- Frameworks: Spring Boot, React, Redux, .Net, NodeJS, Flask, Angular, TensorFlow, Keras, Apache Kafka, Spark, Hadoop, Big Data, HDFS
- Development Tools/IDE: IntelliJ, Eclipse, Spring Tool Suite, VS Code, PyCharm, Git, Google Cloud Platform, IaaS, SaaS, PaaS
- Other Tech: Git, Bitbucket, GitHub, Gitlab, AWS, Azure, OCI, GCP, Machine Learning, NLP, Deep Learning, AI

Education:

Aug 2016-Aug 2020 **B. TECH (Bachelor's degree) IT Engineering** at VJTI, Mumbai | 8.42/10

Achievements and Awards:

- Conducting Brown Bag/Technical talks (Clean/high quality code, design pattern, architecture), working on strategic initiatives, prototypes, POC
- Runner up of Global Hackathon for Mental Good (Leader of team, 300+ teams), Runner up of RFT Hackathon (90+ teams) at Deutsche Bank
- Scored 184/200 in MHT-CET and 184th rank in Maharashtra state | 2nd Rank secured in my school in SSC