Ritik Raj

Senior Software Engineer @LinkToAny

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Education

Jaypee University of Engineering & Technology (Computer Science & Engineering - 8.3/10 CGPA)   2016- 2020

Experience

LinkToAny | Senior Software Engineer (Backend)   Pune, India | Mar 2022 - Present
- Designed loyalty business vertical, added source and target dockerized services written in nodejs. Each service has public, private apis & queue based workers responsible to schedule the jobs and push the jobs to target.
- Developed a Kafka-based distributor service to efficiently validate and distribute data between source and target systems
- Setup grafana dashboards to trace data flow, monitor traffic of queue based worker performance on production.
- Improved message consumption speed by 30% using long polling, enhancing overall system performance.
- Written aws-sqs-sdk-v3, api-node-sdk used by all other services of the company to perform major sqs-queue operations.
- By efficient error handling and covering corner cases the services are capable of handling the _daily transaction of 400k data flow from source to target from 200+ different locations_ from POS.
- Developed file base migration of different entities from Quickbooks to Xero.
- Contributed to robust and maintainable code by writing tests with an 80% code coverage and clear documentation.
- Contributed on company owned open-sources project Stock-Up & hosted npm packages.

Cognizant | Programmer Analyst   Pune, India | May 2020 - March 2022
- Optimized existing code written in apex, added new functionality based on tickets for different geo locations.
- For handling bulk operations on sale, marketing data used batch apex classes and triggers.
- Designed workflows, new functionality of detail pages of standard and custom objects for role based user profiles which depend on international territories to perform sales, marketing & finances.
- Added test having code coverage of 90% and above to classes and triggers.

DailyObjects.com | Software Engineer Intern   New Delhi, India | May 2019 - June 2019
- Refactored & Migrated the entire project from Node V6 to V10, removed vulnerabilities & depreciation.
- Written tests using npm packages Mocha, Chai & Sinon, which has code coverage of over 90%.
- Added lazy loading in angular to optimized website, used tools Google's lighthouse to improve performance.

Projects & Open Source Contributions

Integration Microservices - (Clover, Toast, Lightspeed Vend, PAR Brink, X-Series)
- Setup account using OAuth 2.0 flow & create one to one mapping between source and target account.
- Queue based Sync workers are responsible for sync real time data from POS systems like Clover, XSeries, PAR Brink.
- Queue based Push workers that are responsible for mapping sync payload to request payload to push data target systems.
- In case of status code 500, the worker retry to push that data at an interval of 10 mins delay using queues to prevent data loss.
- Added success and failure prometheus metrics to track number of processed entities
- In case something breaks setup slack notification and alerts to get notifications.

Import-V2
- Developed monolithic service that supports CSV file based migration of large data of accounting or POS to target systems.
- Separated workers for processing file data in batches each data pushed to queue & based on request limit of third party apis, it maps the entities, validating schema & push the data to target systems.

Queue-SDK
- Developed own queue sdk, responsible to consumes messages from an SQS queue, repeatedly attempting to retrieve a message until one is received, or until polling minutes have elapsed
- Reported issues to both aws-sdk & BBC Sqs consumer sdk, issue configuring sqs-client using another version of aws-sdk-v3. Raised PR to increase throughput of messages to SQS Consumer.

Skills

C, C++, Javascript, TypeScript, NodeJs, ExpressJs, NestJs, Git, Docker, Linux, MongoDB, SQL, AWS (SQS, EC2, EBS)
Problem-Solving, Leadership, Communication & Team work.