AADITYA SINGH

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EDUCATION

Indian Institute of Techonology (BHU) Varanasi
Integrated Dual Degree (B.Tech + M.Tech)

Varanasi, India
July 2016 – May 2021

SKILLS

Languages
Java, Javascript, Python, SQL

Frameworks
Spring Boot, Hibernate, React, Redux

Databases
SQL Server

Tools and Technologies
Git, Maven, Docker, Jenkins, Azure, Kafka, gRPC

EXPERIENCE

DivIni Software Pvt Ltd
Software Engineer

Bengaluru, India
Oct 2023 – Present

- Reduced maintenance time by 98% by partitioning large tables, tuning MAXDOP setting, gave an internal talk on partitioning
- Automated maintenance with Invoke-Command, SQL Agent, stored procedures and email notifications, reducing manual intervention.
- Reduced load on the database by 30% due to cache stampede by synchronizing access.
- Improved performance of a slow endpoint, found using VisualVM, by 70% by reducing redundant DB calls by caching results.
- Investigated long running queries using SQL Server Query Store and optimized by adding covering index
- Optimized long running insert operation by 90% by reducing calls on hibernate entity object and instead performing bulk insert.
- Implemented end to end password reset flow from token generation, token delivery via email, validation and the UI screens
- Implemented endpoint for reporting KPIs, created Azure Function to push KPI history to another metrics DB, and a UI dialog to show KPIs
- Implemented de-duplication of job requests and cancellation of jobs to reduce unnecessary workload, triggered by failed deployments.
- Conducted root cause analysis of a deadlock bug that degraded the performance by 90%, fixed it by making transactions more fine grained.
- Parallelized writes to the database to reduce job result processing time by 50%.
- Node upgrade from 16 to 20, including react and its peer libraries like c3, d3, ag-grid, react-contexify, webpack for enhancing security.
- Implemented Regression Pipeline end to end to run sets of jobs in sequence, jobs within the set run parallelly.
- Did memory profiling of the application using Eclipse Memory Analyzer to optimize the memory usage and increase workload.
- Conducted first round interviews for a Python developer opening in the ETL team.
- Automated build and testing of dev branches using Jenkins

314e Corporation
Software Engineer

Bengaluru, India
Aug 2021 – Apr 2023

- Developed a healthcare interface engine using Apache Camel and Spring Boot. Managed dynamic route configuration, message processing, and REST API integration to ensure seamless healthcare data flow.
- Implemented microservices architecture with Kafka and REST, including gRPC integration for a reverse proxy.
- Conducted research, performed proof-of-concept, and contributed to the development of Camel-based healthcare message transformation and processing (HL7v2, FHIR, FRL) within the interface engine.
- Showcased versatility by actively participating in frontend development, building the UI using React.js and TypeScript.

ACHIEVEMENTS

Finalist of Microsoft AXLE (National Challenge code.fun.do++ hackathon) 2019
Disaster Monitor

Bengaluru, India
Oct 2018 - Jan 2019

- Secured **First Position** at code.fun.do++ 2k18 by Microsoft, and Qualified for Nationals at Microsoft, Bengaluru for same.
- Create an app to do real-time classification of wildfire satellite imagery by crawling bing maps.
- For the classification developed a CNN (Resnet) Model trained on images scrapped from NASA's Earth Observatory website using **Azure ML** and deployed on Azure Container Instance, balanced recall and precision by selecting the best model based on F1-score.