MANOJ VIHARI MACHINA

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PROFESSIONAL EXPERIENCE

Clarivate, Bangalore, IN, Software Engineer

Aug 2022 - Present

- Lead Java backend development across multiple projects, ensuring adherence to timelines and standards. Collaborate on requirements gathering and design calls, and translate business needs into technical solutions.
- Resolve backend bugs through systematic debugging, ensuring software reliability. Manage bug triaging and implementation for project integrity.
- Manage multiple projects, ensuring on-time delivery. Facilitate cross-functional collaboration to achieve project objectives.

Project Experience:

Data Explorer:

- Developed Java 8 based Spring Boot microservices for a data analytics project, focusing on optimizing data retrieval and real-time calculation speed based on user query patterns and business logic requirements.
- Initiated a Proof of Concept (POC) to enhance database query performance, implementing caching strategies and leveraging Redis Cache model for efficient data retrieval.
- Designed and implemented pre-computation logic to improve user experience and accelerate data retrieval speeds, contributing to enhanced project performance.

• Caching Mechanism for Authorization Service:

- Implemented caching solutions for multi-level entitlements, addressing the challenge of efficient data retrieval. Designed and executed a process flow to update Redis cache, ensuring real-time data availability and optimization.
- Utilized AWS Lambda and SQS to automate processes triggered by changes in the user database, enhancing efficiency and reducing manual intervention.
- Engineered an optimized database model to facilitate faster retrieval of entitlements, implementing a synchronization mechanism between the master database and the cache database for seamless data consistency and improved performance.

Optimized Bulk Data Download Service

- Enhanced the Bulk Data Download Service, an AWS Lambda-based solution for downloading large datasets in CSV format, addressing memory constraints and performance issues.
- Implemented optimization techniques by utilizing stream-based querying and leveraging AWS S3 multipart upload functionality. This approach significantly reduced memory overhead on Lambda, ensuring smooth creation of CSV files even with millions of records.
- Enabled the Lambda function to query data from both Druid database and Parquet files stored in S3 bucket using S3 select, enhancing flexibility and efficiency in data retrieval for users.

Tata Consultancy Services (TCS), Bangalore, IN, Software Engineer

Nov 2020 – Aug 2022

Project Experience:

Migration Factory Hub

- Developed Migration Factory Hub at TCS, automating migration to Azure Cloud. Features include infrastructure code generation and pipeline automation for efficient workload migration.
- Led Java development, organized release meetings, and coordinated with delivery teams. Ensured project alignment and client satisfaction through daily development activities and client demos.

EDUCATION

Vignan's Foundation for Science Technology and Research (VFSTR)

CG171. 3.

Electronics And Communication Engineering (ECE, 2016-2020)

SKILLS

- Java Spring Boot PostgreSQL Cloud (AWS, Azure) Event Driven (AWS Lambda) Docker
- Version Control (Git) Web Development (HTML, CSS, JavaScript, ReactJS) Agile Methodologies
- Microservices Project Management AWS SDK (S3, SQS, Lambda) Good Communication

VOLUNTARY EXPERIENCE

- Co- Founder & Technical Architect of Chatyfy (WhatsApp E Commerce Solution)
- Co-Founder of Raw Helping Hands (NPO)

CG*PA: 9.4*