PALAK KALSI

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in LinkedIn | ⌂ LeetCode

Experience

TIETOEVRY   **Bengaluru (Remote)**

Software Engineer II

Facility Management Application, CBRE (US)   January 2023 – Present

- **Asset Tracking Optimization:** Optimized asset tracking system for large-scale facilities, cutting update latency from **12** to **4** seconds by using Redis and Kafka, increasing technician assignment efficiency by **30%**.

- **Dynamic Maintenance Scheduling:** Developed REST APIs for real-time asset tracking and maintenance scheduling, reducing downtime by **15%** and saving **$200K** annually.

- **Bulk Uploads and Reporting:** Developed a microservice for real-time reporting and bulk data loading, enabling customizable reports and bulk uploads of facilities and assets via Excel sheets, improving operational efficiency by **25%**.

- **Database Migration & Scalability:** Orchestrated a seamless migration from a monolithic SQL database to Amazon RDS, ensuring minimal downtime and scalability for **1 million+** asset records.

Real Estate Property Lease Management Solution, CBRE (US)   January 2021– December 2022

- **Lease Management Automation & API Development:** Implemented a lease management solution handling **50K+** leases across 5,000+ properties, reducing manual processing time by **40%**.

- **Payment & Tenant Automation:** Automated rent payment reminders, late payment notices, and lease renewals, reducing late payments by **20%** and improving on-time rent collection by **$450K** annually.

- **Tech Stack:** Java, Spring Boot, Microservices, REST API, Kafka, Redis, AWS RDS, Elasticsearch, SQL Server, Kubernetes.

Software Engineer I

Credit Score Analysis Platform, Nordic Banks   July 2019 – December 2020

- **Credit Scoring Service & Real-Time Updates:** Developed a real-time credit score evaluation service that processes customer financial data from multiple sources, reducing credit evaluation time by **32%**. Utilized Kafka to ensure up-to-date scoring accuracy through real-time data ingestion from external financial sources.

- **Risk Assessment & Compliance Reporting:** Integrated a predictive risk model using an external API with Named Entity Recognition (NER) to generate real-time risk scores, reducing bad loans by **18%**. Developed a compliance reporting module to automate regulatory reports, improving accuracy and reducing manual errors.

- **Data Processing & Aggregation:** Implemented data pipelines using Azure Data Factory to process and aggregate large volumes of financial data, supporting over **100K** daily transactions while maintaining real-time scoring accuracy.

- **Tech Stack:** Windows Forms.NET, ASP.NET, C#, Angular, Azure, Redis, SQL, NER, Kafka.

Technical Skills

Java, C++, SQL, AWS, MongoDB, Redis, REST API, SpringBoot, Design Patterns, OOPs , MicroServices, Hibernate, Maven, DataDog, Okta, Docker, Kubernetes, Postman, Snaplogic, C#.NET, Data Structures & Algorithms, System Design, Agile.

Education

Chandigarh University, Punjab

Bachelor of Computer Science and Engineering CGPA 7.9/10   July 2015 - June 2019

Achievements

- Awarded Employee of the Month **six** times at CBRE and TietoEvry for spearheading initiatives in the Facility Management Application and banking microservices, driving significant operational improvements.

- Solved over **500** coding challenges on LeetCode, consistently ranking among the top **20%** of users globally.

- Earned a Bronze Medal in the prestigious International Mathematics Olympiad, demonstrating exceptional analytical and mathematical abilities at a global level.

- Secured **2nd** place in the Global Hackathon for Sustainability, organized by CBRE Inc., by developing an innovative smart building energy management system that reduced energy consumption by **15%** across pilot sites.

- Played a key role in reducing cloud infrastructure costs by **20%** through refactoring code and optimizing resource allocation, improving the scalability and cost-efficiency of the system.