Sanskar Rawat

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EXPERIENCE

Software Developer   October 2023 – Present
Credochain   *New Delhi, India*

- **Automated Invoice Processing**: Automated invoice data extraction with AWS Textract, reducing manual entry time by 60% and improving data accuracy by **40%**.
- **Designed** and **deployed** a scalable, extensible notification service supporting SMS and email communications, adhering to **SOLID** principles and increasing system reliability by 99.9%.
- **Enhanced Fault Tolerance**: Implemented a Hystrix client enhancing system resilience and fault tolerance, resulting in a **99.99%** uptime for critical services

Software Developer Intern   February 2023 – July 2023
Freecharge   *Haryana, India*

- **Crafted RESTful APIs** to monitor and track user activity with in the application sophisticated microservice.
- **Implemented** a service to identify user drop-offs during specific feature journeys,enabling detailed analysis of user behaviour.
- **Executed automated notifications**,emails to users based on activity pattern,enhancing user engagement and retention strategies.
- Acquired **hands-on experience** with **AWS** services like **S3**, **ECS**, **EC2** and **DynamoDB** for efficient backend operations.

EDUCATION

Maharishi Markandeshwar Engineering College   Haryana, India
Bachelor of Computer Science, major in Data Science   *July 2019 – July 2023*

PROJECTS

ByteVault | *Java, Storage Engine, Concurrency, Thread-Safe, Docker*   March 2024 – May 2024

- **Developed Bytevault**, a high-performance, thread-safe, disk-based key-value store inspired by Bitcask, ensuring quick read and write operations for efficient data handling.
- **Implemented thread-safety** features to maintain data integrity during concurrent access, facilitating reliable multi-threaded operations.
- **Engineered scalable solutions** to handle large datasets with efficient indexing and storage optimization through compaction and merging.
- **Designed for reliability** with crash-friendly operation and quick recovery mechanisms, minimizing downtime and data loss.
- **Optimized storage efficiency** through the implementation of compaction and merging techniques, reducing storage footprint and improving access speed.

jnlq-cli | *GraalVM, CLI, NLP, Git*   May 2024 – Present

- **Developed a powerful CLI tool** for parsing, converting, and manipulating JSON data, significantly enhancing data handling capabilities.
- **Implemented versatile conversion features**, allowing JSON data to be transformed into various formats such as PDF, XML, YAML, and CSV, improving data interoperability.
- **Enhanced data manipulation functions**, including filtering, flattening, merging, prettifying, querying, searching, sorting, unflattening, and validating, to streamline complex JSON operations.
- **Integrated AI-powered natural language querying**, enabling intuitive and user-friendly interaction with JSON data, making it accessible to non-technical users.

TECHNICAL SKILLS

Languages: Java, JavaScript, Golang
Frameworks / Libraries: SpringBoot, Hibernate, JUnit, JPA, Node.js, Express.js
Developer Tools: Git, Docker, AWS EC2, AWS S3, AWS Lambda, VS Code, IntelliJ, Eclipse, Maven, Kubernetes
Databases: MySql, MongoDB, PostgreSQL, DynamoDB
Other Technical Skills: Linux, Bash Scripting, Operating System, Computer Networks, Data Structures and Algorithms