

SAURABH SINGH KUSHWAH

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Experience

Druva Data Solutions | Go, AWS, Distributed Systems

Jun 2022 – Current

Senior Staff Software Engineer

Pune, IN

- **Daintree Team:** Collaborated with the Daintree team to develop multi cloud distributed storage system, leveraging AWS DynamoDB, S3, Azure Blob Storage with a strong focus on data deduplication and low cost of ownership.
- **File System Migration:** Designed an event-driven architecture to orchestrate the migration of metadata from more than **200,000** devices to the new Daintree storage architecture with minimal customer intervention. **(SQS, RDS)**
- **Ransomware Recovery:** Developed **Quarantine Bay** 🌀 feature to isolate infected backups after a ransomware attack, preventing backup corruption, and preserving the latest clean backup data from infection. **(Channels)**
- **Control Plane Simplification:** Contributed to supporting a multi-region control and data plane workflow by consolidating the control plane into a **single deployment** to reduce operational costs and complexity.
- **CI/CD Improvements:** Designed an end-to-end (E2E) pipeline for pre-release testing, automating service setup, data cleanup, and test report generation. Developed multistage jobs taking advantage of go package parallelization reducing overall test duration from hours to under 30 minutes. **(CI/CD, AWS, Jenkins, Python)**

Persistent Systems | Java, Spring Boot, Micro Service

Jul 2021 – Jun 2022

Software Engineer

Pune, IN

- Contributed to the development of a microservices-based Transportation Management System (**TMS**) for **BlueDart**, India's largest courier company, to manage, optimize, and track shipments, delivery routes, and transportation costs.
- **Link/DeLink Paperwork:** Developed the Link/DeLink Paperwork feature, enabling the packaging or unpacking of multiple couriers into a single package at a distribution center for transit. Integrated external shipping APIs asynchronously and leveraged concurrency to reduce service time. **(Async Java, CTEs)**
- **Report System:** Contributed to enhancing the reporting system to support large reports, developed reports using Jasper, and added support for recursive CTEs for a custom Java JPA extension library. **(Blaze-Persistence)**

Technical Skills

Languages: Go, Java, Rust, Python, C, SQL, Shell
AWS: DDB, S3, RDS, SQS, ECS, SSM, Param Store
Tools: Linux, Docker, Kubernetes, Jenkins, Git
Web: Go-Kit, Spring Boot, Tokio

Awards

Outstanding Achievement Award 🌀 | Go, DDB, SQS, RDS

Nov 2024

- Recognized for contribution to the design and development of the migration to new file system architecture, leveraging an event-driven approach. Developed end to end migration workflow using SQS, RDS in an distributed environment.

Druva Company-Wide Hackathon Winner - AI Assistant 🌀 | Go, Shell, Google DialogFlow

Jan 2023

- Led the winning team in Druva's company-wide hackathon with 200+ participants. Developed an AI-powered support assistant that automated customer data analysis, reducing dependency on support staff and increasing efficiency.

All Stars Awards 🌀 | Go, HAProxy, Shell

Jun 2023

- Recognized for outstanding efforts in achieving FedRAMP compliance, ensuring the project met stringent federal security standards and enhancing trust with government clients.

High Five - Individual Awards 🌀 | Java, Spring Boot

Mar 2022

- Awarded for successfully managing multiple features independently, executing them in parallel, and consistently meeting deadlines, demonstrating exceptional multitasking and project management skills.

Projects

Full-Text Search Engine | Go, Inverted Index

Apr 2021

- Developed a highly efficient full-text search (FTS) engine capable of searching across thousands of documents in less than a millisecond, significantly improving data retrieval speed.
- Extended FTS engine to support complex boolean queries by implementing a multi-stage process, including tokenization, filtering, stop words removal, and stemming, resulting in a robust and versatile search solution.

Education

Savitribai Phule Pune University

Jun 2017 – Jun 2021

Bachelor of Engineering in Computer Science

Pune, IN