Utkarsh Srivastava

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Experience

IBM / Red Hat **Jan 2022 – Present**

Staff Engineer

- S3 Lead of IBM Diamondback S3 project - Building S3 interface on top of Tape devices.
- Achieved a 82% load reduction on the PostgreSQL DB by optimizing queries, resulting in significant performance improvement for large workloads.
- Spearheaded the enhancement of NooBaa support for GPFS (Spectrum Scale) focusing on functionality and performance optimizations.
- Led the addition of multi-tenancy support for Kubernetes deployments of NooBaa.
- Revamped the authorization subsystem for increased S3 compliance.
- Dealt with a variety of customers, from FAANG to Governments.

Layer 5 **Apr 2021 – Dec 2021**

Software Engineer

- Lead the developement of a declarative platform agnostic workloads orchestrator.
- Lead the development of a Kubernetes visualizer and visual topology designer team.
- Designed and implemented OAM (Open Application Model) runtime.
- Designed and implemented an extensibility framework for remote loading go plugins and react components.

Hackstrap Technologies **May 2019 – Aug 2022**

Co - Founder

- Used React & WebRTC to build chat module for hackstrap website. Worked on features like instant messaging, voice call, video calls and screen sharing. Efficiently horizontally scaled the chat services on the backend.
- Automated the data aggregation of Indian startups, companies, investors, etc. which significantly reduced human intervention.
- Lead teams of skilled software engineers.

Open Source

Meshery (Open Source - CNCF Project) **Feb 2021 – Mar 2022**

Core Maintainer

Service Mesh Performance Spec (Open Source - CNCF Project) **July 2021 – Mar 2022**

Maintainer

Projects

ViewStamped Replication Implementation | *Golang* **Nov 2023 – Present**

- Golang based implementation of ViewStamped Replication Protocol.
- Completely deterministic in nature.
- Uses deterministic simulation testing to run different permutations of configurations and faults to keep finding the bugs.

Reika - Rust Async Runtime | *Rust* **Aug 2023 – Oct 2023**

- Fast Asynchronous runtime for Rust.
- Leverages IO Uring for most of the IO Operations.
- No memory allocation at runtime. None.

Education

Maharaja Agrasen Insititute Of Technology **Aug 2018 – Aug 2022**

B.Tech (Computer Science & Technology) *New Delhi*