Utkarsh Srivastava

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EDUCATION

Maharaja Agrasen Insititute Of Technology **Aug 2018 – May 2022**
B.Tech (Computer Science & Technology) *New Delhi*

EXPERIENCE

Layer 5 **Apr 2021 – Present**
Software Engineer - Part Time
- Building *the first* Service Mesh Patterns runtime - A declarative platform agnostic patterns orchestrator.
- Working on a Kubernetes visualualizer and visual topology designer.

Layer 5 **Nov 2020 – Mar 2021**
LFX Intern
- 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 – Present**
Co - Founder
- Working in React & WebRTC based chat module for hackstrap website. Working on features like instant messaging, voice call, video calls and screen sharing. Efficiently horizontally scaled the chat services on the backend.
- Automating the data aggregation of Indian startups, companies, investors, etc.
- Leading teams of skilled software engineers.

OPEN SOURCE

Meshery (Open Source - CNCF Project) **Feb 2021 – Present**
Core Maintainer
- Worked on Performance Profiles: Integrated SMP with profiles.
- Revamped Meshery Dashboard UI to include service mesh metrics.
- Written adapters for Istio, Linkerd, Traefik, NSM, NGINX, Kuma & OSM service meshes.

Service Mesh Performance Spec (Open Source - CNCF Project) **July 2021 – Present**
Maintainer
- Standardizing Service Mesh Performance metrics collection and analysis.

PROJECTS

Heamon - Minimal Service Health Monitor | *Golang, React* **Mar 2021 – Present**
- An extensible and efficient service health monitor and alerting service.
- Supports hot configuration loading & comes with a UI for reporting incidents.
- Event Driven Architecture helps extending the Service's core features - Inspired by Kubernetes' watch APIs.

RapidoDB - In-memory persistent NoSQL database | *Golang* **Aug 2020 – Present**
- Key value pair based database. Can be used to store any data like strings, numbers, json, etc.
- Created a DSL (RQL) for querying the database. Handwritten lexer and parser for RQL.
- Has realtime features, can push events to the database users.

NodeJS Snowflake - 64 bit time sort-able ID generator | *NodeJS, N-API, C++* **Nov 2019 – Present**
- Actively maintained open source library for node.js (NPM). Uses NAPI to integrate C++ with node.js.
- Over 30K+ Downloads on NPM.
- Designed for distributed systems. Database friendly IDs generator.

TECHNICAL SKILLS

Languages: Golang, JavaScript, TypeScript, C++
Frontend: HTML, CSS, React, Redux, GraphQL
Backend: NodeJS, Golang
Database: MongoDB, PostgreSQL, MySQL, Redis
DevOps: Docker, Docker Swarm, Kubernetes, Linkerd Service Mesh, Istio Service Mesh, Meshery