

# Saswata Mukherjee

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## 🎓 EDUCATION

**Kalinga Institute of Industrial Technology, Bachelor of Technology (B.Tech)**

Jul 2019 – Jul 2023

- Final year (7th semester) student majoring in Computer Science and Engineering with a GPA of 9.53/10.0.

**Delhi Public School, Ruby Park, CBSE**

Jan 2006 – Apr 2019

- Graduated CBSE with 93.4% (9.35/10.0 GPA) in Science with Computer Science stream.

## 🧠 SKILLS

### Languages

Golang, JavaScript(ES6), TypeScript, SQL, HTML5, CSS3

### Libraries/Frameworks

Node.js, React.js, Express.js, Flask, go-chi, Echo, Next.js

### Tools

Git, GitHub, Docker, Kubernetes, Prometheus, Thanos, Observatorium, Build Tools, CI/CD

### Databases

PostgreSQL, MySQL, MongoDB, Redis, SQLite

### Concepts

RESTful APIs, gRPC, Metrics-based Observability, GraphQL

## 📁 EXPERIENCE

**Red Hat, Associate Software Engineer** 🔗

Jan 2022 – present

- Working on Observatorium 🔗, a distributed open-source observability system, in the OpenShift Monitoring Team
- Engineering a scalable & multi-tenant system that allows ingesting, using, and storing observability signals on Kubernetes and makes it easier to correlate data
- Focusing on metrics and working with components like Thanos and Prometheus on OpenShift 🔗 clusters, primarily building using Go
- Joined after an internship during which developed obsctl 🔗, CLI tooling for Observatorium

**Google Summer of Code @ Cloud Native Computing Foundation (Thanos),**

May 2021 – Aug 2021

Mentee 🔗

- Developed mdox 🔗, an open-source tool for smart automation of project documentation and website, built with Golang.
- Features robust markdown formatting using GitHub Flavored markdown spec, transformation, and fast link checking with smart validators.
- mdox is being used as a CI/CD automation tool for maintaining documentation in notable CNCF open-source projects such as Thanos 🔗 and Observatorium.

**MayaData, Software Engineer Intern** 🔗

Aug 2020 – May 2021

- Developed UI components and screens and architected code refactors for data-intensive dashboards of LitmusChaos 🔗, an open-source Cloud-Native Chaos Engineering Toolkit for SREs, as well as Kubera, a single-click enterprise Kubernetes automation solution
- Transitioned frontend codebases for detailed Chaos Engineering dashboards to use a custom in-house component library, Kubera-UI, using technologies like React.js, Material-UI, TypeScript & StoryBook

## 📁 PROJECTS

**ConfigMap Operator, Go, Kubernetes client\_go, Observability** 🔗

- Kubernetes Operator which allows you to update ConfigMaps, based on some external URL/file path that serves the required data. Useful for high-velocity updates to the configurations without having to update ConfigMaps manually.
- Also provides metrics, traces, and logs.

**Quote Search Engine, Golang, Elasticsearch, Next.js, TypeScript** 🔗

- Scrapes Goodreads quotes and indexes data into Elasticsearch for robust text analysis using Golang, with CLI and frontend web application present, for easy interaction with analyzed data.

**React Job Board, React, Node.js, Express.js, Redis, Cron, Material-UI, TypeScript** 🔗

- Lists jobs using the GitHub Jobs API by caching data from the API into Redis and updating it using an hourly cron job. Thus, avoids repetitive network requests to the API and improves latency considerably.

## 📄 CERTIFICATIONS

• KubeCon EU'22 - PrometheusDay Speaker 🔗

• AWS Fundamentals 🔗

• GCP QwikLabs Skill Badges 🔗