

Rokibul Hasan

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Experience

Software Engineer

AppsCode Inc

Dhaka, Bangladesh

Jan 2023 – Present

- **Integrated diverse features into ACE (AppsCode Container Engine) API Server**, enhancing core functionality and platform capabilities.
- **Developed a centralized multi-cluster management solution**, enabling users to manage both public and private Kubernetes clusters from a single ACE Dashboard interface, improving usability and operational efficiency.
- **Developed Kubernetes operators and APIs to automate authentication and authorization**, enabling secure kubeconfig generation and role-based access for clusters.
- **Packaged ACE as a self-hosted service** and prepared it for deployment across vendor-managed and self-managed Kubernetes clusters.
- **Designed and implemented a multi-tenant monitoring system** leveraging **OpenTelemetry**, **Thanos**, **ClickHouse**, and **Perses**, delivering scalable metrics, logging, and tracing across multiple clusters.
- **Contributed to deployment, maintenance, and reliability of AppsCode production servers**, ensuring high availability and performance.

Technologies

Languages and Frameworks: C/C++, Golang, Python(familiar), SQL, Macaron, Go-Chi, Echo.

Databases: PostgreSQL, Redis, ClickHouse.

Technologies and Tools: Kubernetes, Docker, OpenTelemetry, Prometheus, Thanos, Grafana, Helm, FluxCD, Github Action, Makefile, NATs,

Others: Akamai, Hetzner, Rancher, AWS (Basic).

Education

East West University

BSc in Computer Science and Engineering [CGPA: 3.49/4.0]

jan 2019 – Jan 2023

Projects

Cluster Auth Manager

[github/repo](#) [🔗](#)

- Kubernetes operator using the Open Cluster Management (OCM) project to centralize authentication and authorization across multiple Kubernetes clusters from a single hub cluster.
- Tools Used: Golang, Kubebuilder, Docker, Makefile.

Cloud Marketplace

[github/repo](#) [🔗](#)

- A Go-based system with PostgreSQL and Redis, supporting async application deployments, uninstalls, billing, and a publisher-consumer workflow in a cloud environment.
- Tools Used: Golang, Go Chi, GORM, Docker, Makefile.

Feed Angels

[github/repo](#) [🔗](#)

- This is an online food and money donation web application.
- Tools Used: Python, Django, MySQL, HTML, CSS, Java Script.

Achievements and Activities

- Solved **1000+** problems on different Online Judges and participated in **200+** contest.
- Online Judges Profile and ratings: [Codeforces](#) [🔗](#) (Max Rating: **1695**), [Codechef](#) [🔗](#) (Max Rating: **1848**), [HackerRank](#) [🔗](#) (**6 star**), [LeetCode](#) [🔗](#) (Max Rating: **1609**).
- Contributed to several **CNCF** projects, including [Open Cluster Management](#), [vCluster](#), [Kyverno](#), [K3s](#), [Kube-Virt](#) collaborating on enhancing and improving open-source initiatives.