

MD TAHSIN RAHMAN

Software Engineer

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tahsinrahman

EXPERIENCE

Software Engineer

Sea Ltd

May 2021 – Present

Singapore

Sea Labs, Cloud Engineering Team, Storage Sub-Team

Technology: Golang, Kubernetes, Ceph, Rook, Openstack

- Design and development of object storage, blocks storage and file storage products for cloud platform, based on ceph
- Responsible design and maintenance of ceph clusters(across multiple data centres) and provide storage solution for our on-premise kubernetes clusters.
- Led product engineering with high level expectation set by respective product owner, done technical feasibility analysis, led architecture design to hands on development of actual back-end components. In the process, collaborated with multiple teams to converge with same goal.
- Continuously improve the products in terms of stability, scalability, functionality and performance according to business requirement
- Responsible for reviewing technical designs and merge requests, mentoring new members.

Software Engineer/DevOps

AirAsia Bhd.

February 2020 – April 2021

Kuala Lumpur, Malaysia

Technology: Kubernetes, Docker, GCP, Terraform, Golang, Istio

- Develop a central logging and monitoring platform, using prometheus, loki and grafana.
- Write tools using golang for automating toil
- Provision and manage infrastructure using terraform
- Create and maintain fully automated CI/CD pipelines for code deployment using Gitlab-CI
- Improving developer workflow, increasing scalability, and optimizing cost

Software Engineer

AppsCode Inc.

Mar-Aug 2018, Nov 2018 – Dec 2019

Dhaka, Bangladesh

Technology: Golang, Kubernetes, Docker

- Worked to build kubernetes controller tools and services
- Develop and maintain kubernetes cluster bootstrapping and management tool
- Design and build on a security tool for scanning vulnerabilities of a Linux host from scratch

PROJECTS

SealCloud

Worked on design and development of multiple storage related products for SEA's cloud platform, based on ceph

- A highly available(multi-regional) object storage service(similar to aws s3)
- A block device service for virtual machines (similar to aws elastic block storage)
- A shared filesystem service (similar to aws elastic file system), and integrate with other products(vm and container engine)

PROJECTS

Pharmer

Open-source, kubernetes cluster bootstrapping and management tool using Kubeadm and Cluster-API. Supports GCP, AWS, Azure, DigitalOcean, Linode and Packet

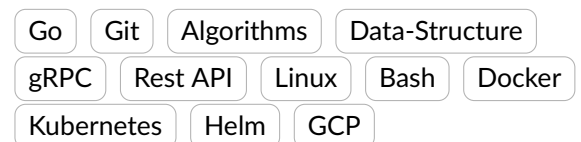
- Implemented cluster infrastructure management, autoscaling, and automatic repair support by integrating with cluster-API
- Wrote kubernetes controllers for managing different cloud providers resources.
- Implemented support for creating highly available multi-master kubernetes clusters
- Refactored legacy codebase to improve support for adding new cloud providers

OPEN-SOURCE CONTRIBUTIONS

Kubernetes

- Cluster-API a kubernetes sub-project providing declarative APIs and tooling to simplify provisioning, upgrading, and operating multiple kubernetes clusters. Contributed to the core project and implementation for AWS, GCP and Azure platforms.
- Collaborated on structured logging initiative, migrating unstructured logs to structured format
- Member of kubernetes-sigs github organization

TECHNICAL SKILLS



EDUCATION

B.Sc. in Computer Science and Engineering
Chittagong University of Engineering and Technology

March 2014 – Nov. 2018

EXTRA CURRICULAR ACTIVITIES

- 2nd, National Collegiate Programming Contest, 2017 (150 teams)
- 3rd, SUST Inter University Programming Contest, 2017 (160 teams)
- 10th, ACM ICPC Regional Dhaka Site, 2016 (120 teams)

INTERESTS

- Cloud computing and distributed systems
- Site Reliability Engineering