

Md. Emruz Hossain

Lead Software Engineer

@ [AppsCode Inc.](#)

📍 Dhaka, Bangladesh

Tech Skills

Kubernetes 3+ yrs.

Docker 3+ yrs.

Go 3+ yrs.

Prometheus

Cloud Computing

Linux 5+ yrs

Algorithm

Data Structure

Soft Skills

Hard Working

Leadership

English Speaking

Summary

I am a passionate software engineer with 3.4+ years of working experience. I have been working with Kubernetes, Docker and other cloud native technologies since 2018. Mainly, work with GO but interested in learning other languages based on necessity. Currently, at AppsCode I am leading [Stash](#) project which is a disaster recovery tool for Kubernetes native applications. I am also, one of the major contributor of [KubeDB](#) an operator for running production grade databases in Kubernetes.

Work experience

Lead Software Engineer

at [AppsCode Inc.](#)

Jan 2021 - Present

I have been delegated as Lead Software Engineer since January, 2021. In this role, I am leading Stash team, leading backup part of KubeDB, coordinating with front-end team for integration of Stash and KubeDB with [ByteBuilders](#) a modern user facing platform for managing Kubernetes clusters.

Software Engineer

at [AppsCode Inc.](#)

Nov 2017 - Dec 2020

In this role, I have handled several responsibilities including designing, developing new API for Stash, implementing enterprise features for Stash, interacting with end-users to provide supports and improving product based on the feedback, contributed to various KubeDB features, and worked on other OSS tools by AppsCode.

Intern

at [AppsCode Inc.](#)

Mar 2016 - May 2016

In this short internship opportunity, I have worked on building API based simple library website.

Projects

• [Stash](#)

Stash by AppsCode is a cloud native data backup and recovery solution for Kubernetes workloads, volumes and databases.

Responsibilities

- Lead Stash team.
- Design, plan, and implement various community and enterprise features.
- Interact with customers to understand their use-cases and improve the product to meet their requirements.
- Work on integration with other tools like KubeDB, ByteBuilders, etc.

• [KubeDB](#)

KubeDB by AppsCode simplifies and automates routine database tasks such as provisioning, patching, backup, recovery, failure detection, and repair for various popular databases on private and public clouds

Responsibilities

- Lead at Stash integration for backup & recovery of KubeDB databases.
- Added support for custom configuration.
- Worked on various bug-fixes and improvements.

Education

Mar 2013 - Nov 2017

B.Sc. in Computer Science & Engineering

Chittagong University of Engineering & Technology

CGPA: 3.28 out of 4

Jan 2010 - Dec 2012

Higher Secondary School Certificate (HSC)

Sristy College of Tangail

GPA: 5 out of 5

Jan 2005 - Dec 2010

Secondary School Certificate

Lowhati M. Ahazar Memorial High School

GPA: 4.38 out of 5

Interests

- ▶ OSS Contribution
- ▶ Machine Learning
- ▶ Physics
- ▶ Blogging

Contact

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- 📱 [emruz-hossain](https://www.instagram.com/emruz-hossain)

• Riverine Vehicle Tracking System with Overload Detection

A real time monitoring system and overload detection system for riverine vehicles.

Responsibilities

- Design and build a prototype of buoyancy based Overload Detection Unit (Arduino + Ultrasonic sensor).
- Build a prototype of GPS based vessel tracking system (Arduino + GSM Module).
- Build a Central Monitoring Panel (Webpage).
- Build a desktop app for the vessels (Electron Framework).
- Build an mobile application for the passengers (Cordova, JQuery Mobile).

Publications

- Author, Md. Emruz Hossain & Author, Mohammad Shamsul Arefin (2019). "An IoT based System for Riverine Vessels Monitoring". In: *BCS Journal of Computer and Information Technology*, Vol. 01,2019, Jan, 2020.

Achievements

• Competitive Programming


- 7 th at ACM International Collegiate Programming Contest, Dhaka Regional 2016.
- 11th at CUET National Collegiate Programming Contest 2017.
- 14th at UAP National Collegiate Programming Contest 2016.
- Solved 700+ programming problems in various Online Judges.
- Participated in many national and international onsite programming contest with team.

• Open Source Contribution

Contributed in various popular open source projects such as [Kubernetes](#), [KubeDB](#), [Stash](#), [Kubed](#), and [OSM](#) etc. Creator of [Toha](#) a popular Hugo based portfolio theme.

• Extra Caricular Activities

- Former programming mentor of CUET Computer Club.
- Organizing member CUET NCPD 2017.
- Provided programming problem set in several IUPC.



Dhaka, 22nd March 2021

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