

# ABDULLAH AL MARUF

SOFTWARE ENGINEER

## LIFE PHILOSOPHY

*"Do not fear failure but rather fear not trying"*

- Roy T. Bennett

## CONTACT

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## STRENGTHS

Team Work	<div><div></div></div>
Optimist	<div><div></div></div>
Communication	<div><div></div></div>
Problem Solving	<div><div></div></div>
Self Learning	<div><div></div></div>

## PROUD OF

**Competitive Programming**  
Regular participator and problem setter of programming contests.

**Open Source Participation**  
User, Follower and Contributor of many open source projects.

**KubeDB's growth**  
From very few to thousands of daily users.

**Leadership**  
Served as President of CUET COMPUTER CLUB. Also acted as Project Head of KubeDB.

## PROFILE

Passionate software engineer with 2.5 years of working experience developing **Kubernetes** tools in **GO**. Acted as AppsCode's **KubeDB project head** for more than a year. Love to participate in **programming contests**. An enthusiastic **team player**.

## EXPERIENCE

### SOFTWARE ENGINEER

May, 2017 - Present

**AppsCode Ltd.**

Dhaka, Bangladesh

Subsidiary company of AppsCode Inc. USA. An Integrated platform for collaborative coding, testing & deploying containerized apps.

- Worked to build **Kubernetes controller** tools to utilize Kubernetes services.
- Maintenance and development of **KubeDB** project, A database management tool for Kubernetes.
- Led team members** to design and implement the core features of KubeDB.
- Contributed and worked with many **open source projects** including Kubernetes, Docker, Helm, Kops, Prometheus, gRPC, Restic, etc.
- Used: **Golang, Kubernetes, Docker, MongoDB, Elasticsearch, GCP, AWS, Azure.**

## EDUCATION

BSc in Computer Science & Engineering

*Chittagong University of Engineering & Technology*

Session 2012-2017

## TECHNICAL SKILLS

GO C C++ Java SQL

Kubernetes Docker AWS GCP Azure

MySQL MariaDB PostgreSQL MongoDB

Git Bash gRPC Linux



## TOP OPEN SOURCE CONTRIBUTION



### kubernetes/kubernetes

Production-Grade Container Orchestration.



### kubedb

Database management tool for Kubernetes.



### stash

Backup and restore plugin for Stash.



### kmodules/client-go

Kubernetes client-go utilities



### appcode/analytics

Essential analytics for OSS



## PROGRAMMING CONTESTS

Solved overall **900+** problems on different Online Judges.

**Divisional Champion** of ACM ICPC Dhaka Regional 2014 and 2015 with university ranking **7th** and **8th**.

Divisional Champion with **6th** position at SUB IUPC-2016.

Divisional Champion with **13th** position at RUET NCPC-2015.

**Champion** at USTC IUPC-2015.



## SOCIAL MEDIA



linkedin.com/in/maruftuhin



github.com/the-redback



stackoverflow.com/u/4628962



twitter.com/maruf2hin



https://maruftuhin.com



codeforces.com/profile/the\_redback



## TOP PROJECTS

### KubeDB

<https://kubedb.com>

A cloud-native database management solution for Kubernetes to simplify and automate provisioning, backup, recovery, failure detection for various popular databases.

- Led a small team to design & implement the core features.
- Designed and implemented various database support from scratch.
- Designed and implemented MongoDB clustering system support.
- Improved Postgresql and Elasticsearch clustering system.
- Worked with Prometheus exporters to export database metrics.

### Stash

<https://appcode.com/products/stash>

A volume backup tool designed for Kubernetes. Under the hood, it uses Restic for backup/restore purposes.

- Improved database backup system using stash.
- Designed and implemented Elasticsearch and MongoDB cluster backup system from scratch.
- Integrated Stash support within Kubedb to backup/restore dbs.

### Appcode/Analytics

<https://github.com/appscodelabs/analytics>

- Worked with docker-hub APIs to collect analytic data
- Stored data in Google sheets using GO client.
- Used pixel tracking (ie, web beacon) to event each view of GitHub or other web pages.

### 3D Racing Game

<https://github.com/the-redback/unity-3d-racing-game-scripts>

- Final year thesis & project.
- Developed for both PC and Android.
- Tools: Unity 5 Game Engine, Android SDK, C#.

### Academic Projects

- Department of Student Welfare (DSW) Management System using C# and MySQL.
- Library Management System using C# and Microsoft SQL Server.
- Scientific Calculator using Java swing.
- Automatic Email Verification using Java as Internship Project.
- Data encryption project in Java.



## INTERESTS



Competitive Programming



Gardening



Photography



Gaming



Traveling