

ABDULLAH AL MARUF

SOFTWARE ENGINEER

LIFE PHILOSOPHY

"Do not fear failure but rather fear not trying"

- Roy T. Bennett

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https://maruftuhin.com


Dhaka, Bangladesh

STRENGTHS

Team Work 

Optimist 

Communication 

Problem Solving 

Self Learning 

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 AppCode'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

AppCode Ltd.

Dhaka, Bangladesh

Subsidiary company of AppCode 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 NCP-2015.

Champion at USTC IUPC-2015.


SOCIAL MEDIA


 [linkedin.com/in/maruftuhin](https://www.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