TAPAJIT CHANDRA PAUL

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PROFESSIONAL EXPERIENCE

AppsCode Ltd [website]   Dhaka, Bangladesh
Software Engineer   November 2022 – Present

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

- Worked with and developed various Kubernetes controller tools to utilize Kubernetes services.
- Worked on building Managed Database Solution (DBaaS) as part of the ByteBuilders project, a web based console for managing Kubernetes clusters.
- Worked on addition of new database support in KubeDB project, a database management tool for Kubernetes.
- Contributed and worked with many open-source projects, including Kubernetes, Docker, Cluster-API, Helm, Crossplane, Upbound, etc.
- Conducted Webinars [link] to showcase new features of AppsCode's products to clients.
- *Technology used: Golang, Kubernetes, Docker, FluxCD, Bash Scripting Language, Azure, AWS, GCP, Apache Druid.*

EDUCATION

Chittagong University of Engineering and Technology   Chittagong, Bangladesh
Bachelor of Science in Computer Science and Engineering   2022
CGPA – 3.30/4.00

PROJECT EXPERIENCE

KubeDB [website]

https://github.com/kubedb

A cloud-native database management solution for Kubernetes. It simplifies and automates provisioning, backup, recovery, failure detection for various popular databases.

- Worked on the addition of Apache Druid Database support in KubeDB from scratch.
- Worked with Prometheus to export the database metrics and visualize it with Grafana dashboards.
- Working on addition of backup & recovery for KubeDB managed Apache Druid.

ByteBuilders [website]

https://github.com/bytebuilders

A web-based console for managing Kubernetes clusters i.e. provisioning or upgrading clusters, deploying or maintaining stateful or stateless applications, managing production databases etc. across various clouds.

- Developed backend functionality to facilitate the management of Azure Kubernetes Service (AKS) clusters through ByteBuilders console.
- Developed API for automating the creation and deletion of AKS clusters using Cluster-API.
- Automated the installation of cluster components using GitOps tool FluxCD.
- Created backend functionality for deploying different databases on dedicated or shared nodes in AKS clusters using KubeDB.

Academic Projects:
- Depression Analysis of undergraduate students in Bangladesh using Machine Learning.
- A phonetic keyboard for typing Bengali using English keyboard.

ACCOMPLISHMENTS

Open Source Contribution
- Contributed to open-source projects including kubernetes-sigs/cluster-api-provider-azur*e* (*pull-request*, *issues*), ByteBuilders, Kubepack, etc.

Competitive Programming Contests
- **Expert** at Codeforces with maximum rating of **1816**. (CF handle: Tapojit047).
- Solved around **2500** problems on various online judges.
- 2nd Runner Up, RMSTU Bangabandhu Online Chittagong Divisional Programming Contest – 2021 [link] (Team: CUET_Team_3).
- 2nd Runner Up, Tech Carnival – 1.0 Chittagong Divisional Programming Contest – 2021 [link] (Team: CUET_Team_3).

COMPUTING SKILLS

- Programming Language: C, C++, Golang, Bash Scripting Language, LaTex
- Container Technologies: Docker, Kubernetes
- Version Control: git
- Database: MySQL
- Cloud Computing: Azure, GCP, AWS, Linode, etc
- Operating Systems: Linux, Windows

ACTIVITIES

CUET Computer Club   Chittagong, Bangladesh

Organizing Secretary   July 2021 – July 2022

- Conducted classes and provided mentorship to junior students in Competitive Programming as well as Data Structures & Algorithms.
- Organized intra-university programming contests and contributed as problem-setter and judge.