

Shajal Ahamed

Senior Software Engineer at InterCloud.



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EDUCATION

Chittagong University of Engineering and Technology

Chittagong, Bangladesh

Bachelor of Science in Computer Science and Engineering

PROGRAMMING SKILLS

- **Languages:** Python, GO, Javascript
- **Technologies:** Docker, Kubernetes, Jenkins, Terraform, AWS, Ansible

EXPERIENCE

- **InterCloud Ltd.** Dhaka
Senior DevOps Engineer July 2019 - Present
 - **User Portal:** Developing a user portal so that they can create VM, Subnet, Security Group etc. User also can see their usage statistics and resource quota from this portal.
Language : Python, Reactjs.
Cloud Platform : OpenStack
 - **Network Programmability and Automation:** Developing python scripts to analyze and troubleshoot various networking devices and servers those are running our OpenStack Platform.
- **ITECH-SoftSolutions** Khulna
Senior DevOps Engineer April 2019 - June 2019
 - **Kubernetes:** Writing various manifest file for kubernetes. Managing the full cluster and repair them when needed.
 - **GitOps:** Using GitOps way to do continuous delivery in kubernetes. Used EKS as a managed Kubernetes cluster service.
 - **CI/CD:** Creating fully automated CI build and deployment infrastructure and processes for multiple projects.
 - **Docker:** Writing Docker files for various projects (Nodejs, Python, Reactjs) for production use.
- **Renata Ltd.** Dhaka, Mirpur
Senior Software Engineer Mar. 2017 - Mar. 2019
 - **RenataVisio:** An Industrial IOT project that scrapes sensor and actuator data and saves the scraped data into Influxdb.
Language : Python, Javascript(D3).
Database : InfluxDB, MySQL.
 - **Data Pipeline:** In Renata, there are more than two hundred machine. Every machine has more or less thirty sensors and actuators. Gathering data from these devices need different kind of approaches. In some places we used MySQL (for critical error data) and in others we used InfluxDB (for time series data). This data pipeline is a common data bus for RenataVisio.
 - **Notification System:** This service is used for sending push notifications to the maintenance engineer about sensor and actuator malfunction. It is connected with RenataVisio's data pipeline so that it can send notification promptly.
 - **Maintenance Scheduling:** Based on the sensor and actuator data RenataVisio's internal system make a list of machines for next primitive maintenance. As work force is limited so used greedy algorithm to schedule the maintenance list. Then used D3js to visualize the maintenance calendar.
 - **Type-ahead Suggestion System:** One can not memorize all sensors and actuators model name. Trie data-structure is used for this suggestion system. So RenataVisio's sensor searching panel will guide someone to find sensor name and quantity from our four thousand sensors inventory database.

ACHIEVEMENTS

- **iARC-2012**

Champion in Bangladesh Round.

Fourth Position in International Round. (IIT, Kanpur)

REFERENCE

- **Mohammad Shamsul Arefin**

Assistant Professor, Department of Computer Science and Engineering, CUET

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