

Rizbi Hassan

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Work Experience

- **Junior Cloud Engineer (AWS)** [June. 2019-Present]
KBR Inc. (Contractor to United States Geological Survey)
Sioux Falls, SD, USA
 - Supporting the cloud team with migration of 6 PB Landsat satellite data from on-premises to AWS cloud for the US government.
 - Integrated Gitlab CI/CD and AWS Cloudformation to deploy resources in dev, it and prod AWS accounts.
 - Used AWS SAM template to create Lambda functions used for different purposes such as querying Aurora database tables, adding records in DynamoDB, etc.
 - Integrated AWS CloudFront and Route 53 with web apps to deliver contents via SSL cert to end users.
 - Deployed/modified AWS resources with infrastructure as code using cloudformation.
 - Helped in deploying Jupyterhub inside Kubernetes on AWS(EKS) using ELB, auto scaling, EC2 and Route 53.
 - Used docker to deploy and run apps inside EC2 Linux servers.
 - Utilized Gitlab, Jira, Kanban and Confluence to collaborate with other developers and members.
 - Verified and wrote test cases for different cloud-based user interfaces.

Professional Certifications

- *AWS Certified SysOps Administrator, Associate* [Oct. 2019-Oct. 2022]
License# 1K1W8JGCEMQ4Q533 ([Verify](#))
- *AWS Certified Developer, Associate* [Aug. 2019-Aug. 2022]
License# GVP345VC3JR1Q2W8 ([Verify](#))
- *AWS Certified Solutions Architect, Associate* [Nov. 2018-Nov. 2021]
License# N5VR7SMK1BV117C3 ([Verify](#))
- *Cloudera Certified Spark and Hadoop Developer* [Jan. 2019-Jan. 2021]
License# 100-021-841 ([Verify](#))

Education

- South Dakota School of Mines and Technology, USA
MS Electrical & Computer Engineering, GPA 3.57, Graduation: May 2019
- Khulna University of Engineering & Technology (2nd best engineering school in Bangladesh)
BS Electronics & Communications Engineering, GPA 3.38
Courses: Machine learning fundamentals, Data analysis using R programming, Numerical analysis, Data structures & algorithms, Computer fundamentals and programming, Information theory, Computer networks

Other Relevant Projects

- Designed a deep learning model using Keras that recognizes handwritten digits with 98% accuracy ([link](#))
- Used Spark SQL and Scala for finding top sold products by performing extract, transform, load (ETL) processes on 30 GB data. ([link](#))
- Used Python's scikit-learn Voting and Bagging classifiers along with KNN, logistic regression, decision tree & random forest in a school project to compare their accuracy. ([link](#))
- As a data visualization project, used BI tool Tableau to visualize key points of Olympic games. ([link](#))

Skills

- Programming languages: Python, R, Scala
- Big Data Technology: Apache Spark, Hive, Sqoop
- Databases: PostgreSQL, DynamoDB, Aurora
- Data Visualization: Tableau, OriginLab
- Other skills: HTML, CSS, Mathcad

Other Achievements in USA

- Our "LPIP Cloud Team" at KBR won the team award in September 2019 for successfully moving 6PB data into AWS.
- Won "*Outstanding Graduate Student*" award in Electrical & Computer Eng. department in 2019.
- Recipient of \$1000 "2018 Ivanhoe Excellence Fellowship Award" at graduate school.
- Published one international **journal** at *IEEE Access* during MS degree.

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