MO CHOWDHURY

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Skills

AWS Services and DevOps, Data and Cloud Engineering, Python, SQL, Excel, VBA, Macros, Functions, MATLAB, Power BI, Financial Market Quantative/Algorithmic Trading, Machine Learning, ETL Process, Docker

Academic Background

University of Waterloo, Bachelor of Applied Science in Engineering

University of Cambridge, Certificate of Education in Science

AWS Developer Certification

Data-Camp, Data Engineering Python Certification

Work Experience

PSC,GOVERNMENT OF CANADA: 2022– Present
DATA ENGINEERING ANALYST/DEVELOPER

- Leaded the development side of the DOTS CICD pipeline.
- Developed multilayer encrypted secret password management tool for use of the department.
- Created the POCS for multilayer docker use for various applications within PSC
- Created custom logging system for the health of the ETL application that uses dagster UI and custom logging health parameters are automatically stored in Datawarehouse which is analyzed and served in PowerBI dashboard for further analytics

NDP: 2021
LEAD PYTHON PROGRAMMER/CLOUD ENGINEERING

- Developed a pipeline that ripples any new data from AWS RDS to Google Cloud Big Query to project on the Cloud Data Dashboards.
- Created a data replication service that transfers data from Populus database to AWS RDS using AWS DMS and Lambda services.
- Built ETL pipelines to extract mined data from Facebook API and then clean, distribute the data and model them.
- Incorporated AWS Secrets manager in all the scripts to increase security and removing the needs of config files being stored on premises
- Procured live data from Elections Ontario, extracted using SFTP on a EC2 instance and pass through Kinesis Firehose to feed for live data analytics.
- Gathered experience working with diverse APIs to extract and post data by creating scripts that connects APIs with Data Lakes and various schemas in data warehouses.
- Architected a complete new VPC along with separate subnets to host EC2 servers on private network to be only accessible by Bastion host using Infrastructure as Code CloudFormation templates.
- Deployed programs using schedulers and gathered knowledge in various scripting languages.
- Acquainted with AWS services such as such as RDS,DMS,Transcribe,EC2, S3,Lambda,Code Build and Deploy, IAM, Kinesis Firehose, Autoscaling, Load Balancing and CloudWatch

IZAAN SCHOOL OF ENGINEERING
LECTURER

- Teach students how to Orchestrate a CI/CD pipeline for a web app which helped reduce significant amount of time when deploying projects. The pipeline was developed using AWS Developer Tool (Code Commit, Code Build, Code Deploy & Code Pipeline).
- Show students various lamda function that uses python to automate various task using services like AWS Transcribe, step functions, DMS.

DOLCEHAR DESIGN
FOUNDER AND CTO

- One stop solution to meet your business needs of website design, hosting , security and marketing.

HTS ENGINEERING: 2018-2021

- Performed cost analysis to secure projects in noise control products using statistical estimation with varying coefficient models
- Analyzed data to secure projects based on historical data using python
- Played an important project management role to implement the use of Machine Learning automations to do quantity take-offs and implement cloud service project.

Awards

- **"University of Waterloo President's Scholarship"** for exceptional academic achievement, University of Waterloo
- **"The Daily Star Award"** for outstanding academic results in University of Cambridge International examinations
- **"Mathematics Olympiad champion"** given to students by Regent College for their mathematics competition
- **"Certificate Of Excellence"** given to students by South Point School for highest marks in CIE O Level Exams