Jacob Braswell
MLOps Engineer

1029 19th St S BSMT
Arlington, VA 22202
(513) 722-5915
jacob.braswell00@gmail.com

SKILLS

- Python, R, Go
- Linux, Git, Bash
- Airflow, GCP dataflow, Astronomer, Spark

- SQL, MySQL, MongoDB
- Kubeflow, Sagemaker, MIflow, Argo
- Tensorflow, Torch, Keras

- Docker, Kubernetes
- Data Visualization (plotly, D3, ggplot, streamlit)
- Azure 900, CKA, GCP ACE

EXPERIENCE

Collibra Inc, Arlington, VA - MLOps Engineer

December 2021 - Present

- Built and maintained numerous CICD pipelines deployed via jenkins to run and maintain terraform code to stand up multi-node clusters handling hundreds of machine learning models, build and deploy custom container images, and automate code pipelines.
- Implemented Kubeflow environment deployed via helm and deployed multiple end to end ML use cases.
- Integrated Airflow environment to create multiple ETL pipelines that gathered model information, performed data processing for model training, and other use cases.
- Created model evaluation monitoring and logging pipeline for numerous models to help trigger retraining and track model performance.
- Built and maintained environment alerting and monitoring solution utilizing prometheus, grafana, and thanos.
- Leveraged Cloudwatch, Lambda, and Cloudwatch alarms to monitor and alert service outages and calculate SLA's for our machine learning workloads.
- Helped maintain AWS fedramp EKS environment by updating container images to ensure compliance based off CVE reports and keep cluster nodes freshly rotated and updated.

SAS Institute, Cary, NC - Solutions Architect

July 2019 - December 2021

- Built standalone MLOps training Azure Cloud based environments and courses for hundreds of customers and internal employees.
- Used Terraform to build, administer, and deploy GCP and AWS based microservice applications for hundreds of users in, managed via Kubernetes.
- Used prometheus, grafana, and thanos to monitor kubernetes workloads and ensure consistent uptimes.
- Deployed cloud governance automation using cloud custodian to enforce cloud governance policies, manage cloud costs, and encourage best practices in multiple internal AWS, Azure, and GCP cloud accounts.
- Integrated various ML models using API's to help set up a CICD process for training, deploying, and retraining models.

North Carolina State University Poole College of Management, Raleigh, NC - Course Manager

April 2019 - July 2021

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- Managed multiple MBA courses covering Data Driven Managerial Decision Making.
- Used LaTeX, Python, and R to help provide resources for students to learn the course material and provide solutions to homework problems.

Lawrence Livermore National Laboratories, Livermore, CA *- Data Scientist (Capstone)*

November 2018 - May 2019

- Used Tensorflow to build a Convolutional Neural Network to predict parameters given a topographic fusion image. Built and deployed both GAN and CNN models.
- Worked with Docker containers to deploy multiple models for a VR simulator.

EDUCATION

Brigham Young University, Provo, UT *- Applied Statistics and Analytics*

2015 - 2019

Course work: Bayesian Statistics, Data Mining, Machine Learning, Regression, Time Series, Deep Learning, MCMC sampling and modeling, Business Japanese, Base and Advanced SAS

Activities

Brigham Young University Data Science Club - President

Volunteer Missionary, The Church of Jesus Christ of Latter Day Saints, Japan

Personal Github - https://github.com/jocobtt