ERIC WUERFEL

DATA ENGINEER

CONTACT

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PROFILE

Building quick and reliable data pipelines, automating busy-work and generating insights
I currently live and work in Radford VA with my wife, May, and my cat/coding partner, Theo.

EDUCATION

BACHELOR'S OF ARTS, PHYSICS
VIRGINIA TECH | 2015 - 2019
MINOR IN ECON, GPA: 3.75

DATA SCIENCE
BLOOM INSTITUTE
 OF TECHNOLOGY | 2019 - 2020

STACK/SKILLS

- Hadoop, Hive
- SQL, Presto/Trino
- Spark, pySpark
- Bash, Python, Scala
- Airflow, Oozie
- Git, Jenkins, CICD
- JIRA, Confluence

PROJECTS

KAFKA TOPIC CONSUMPTION
KAFKA, SPARK, AIRFLOW

- Setup ingestion of messages from Kafka topics for a quoting system
- Parsed necessary details from Kafka messages into Hive tables for front-end consumption
- Designed process to monitor streaming jobs' status, restart as needed and send alerts

SECURE AWS RDS TO ON-PREM INGESTION
BASH, MYSQL, HQL, AIRFLOW

- Ingested data from an AWS RDS instance with PGP encryption to handle PII
- Coordinated with internal and external security team to satisfy all security requirements
- Translated reports from MySQL to HQL for on-prem execution

EXPERIENCE

DATA ENGINEER
LOWE'S COMPANIES, INC. | MAY '20 -

- Developed new data pipelines; Maintained, enhanced and optimized existing data pipelines
- Exported and extracted data to/from 3rd party sources such as AWS RDS & S3, SFTP, other RDBMSs
- Migrated pipelines from Oozie to Airflow, SQL to Spark, Apache Hadoop to Cloudera Hadoop
- Built alerts in case of failure, and served as on-call support
- Onboarded new data engineers, mentored interns and associate engineers

RESEARCHER
VIRGINIA TECH DEPT OF PHILOSOPHY | FEB '17 - MAY '19

- Modified a MATLAB library for gravitational wave detection to take HDF5 files as input
- Attended LIGO's data workshop at Caltech
- Organized a data workshop at Virginia Tech to show others how to read and clean interferometer data

ACHIEVEMENTS

TOP CONTRIBUTOR AWARD
CONTRIBUTIONS AS DATA ENGINEER
APRIL 2023

DANIEL C. AND DELIA F. GRANT SCHOLARSHIP
ACADEMIC ACHIEVEMENT IN PHYSICS
2016 - 2019

ACC CREATIVITY AND INNOVATION GRANT
RESEARCH IN MULTI-MESSENGER ASTRONOMY
JANUARY 2018