

Matthew Burns

Software Engineer

EDUCATION

2015-2019

University of Maryland
BS in Computer Science

SKILLS

Technology

- Apache Spark
- Apache Airflow
- Apache Kafka
- Apache Iceberg
- AWS
- Lambda
- Step Functions
- EC2
- Glue ETL
- Sagemaker
- Jenkins
- Git
- Pytorch
- Tensorflow

Languages

- Python
- Java
- JavaScript
- HTML
- SQL
- C
- Terraform

Accomplishments

- JPMC AWS DeepRacer City Finalist
- Eagle Scout

CONTACTS

- mburns7211@gmail.com
- (443) 875-8697
- <https://www.linkedin.com/in/matthew-burns-255572108/>

PROFILE

I am a passionate software and data engineer striving to solve hard problems. I am eager to learn and continue to develop my engineering skills while taking on more responsibility.

WORK EXPERIENCE

Data Engineer | Clark Capital Management Group

2024-Present

I develop and maintain all aspects of data for a buy side asset management firm. I develop ETLs using Matillion to load data from various sources, transform, and store in Snowflake. I automate processes across the firm using python to help save time and bring value. I have created numerous AI Agents using Snowflake Cortex to allow employees to better understand the firm's data.

Lead Software Engineer | JP Morgan Chase

2024-2024

Led a team of engineers in the migration of on-prem data to the cloud while also continuing as the lead developer. Developed, maintained and supported the AWS pipeline to move data via Step Functions, Glue ETL, and Apache Spark.

- Moved over 15 Petabytes and counting of historic and new data to the cloud
- Created the ability to run over 1000 data migration jobs at once through scalable AWS architecture
- Standardized data to company wide standards by enforcing formats, cleaning data, and converting fields
- Become an expert in Glue ETL and Apache Spark by continuing to test the limits of AWS

Senior Software Engineer | JP Morgan Chase

2023-2024

Became a senior engineer of the JPMC data lake project. Began developing AWS Lambda Functions and Glue Jobs via Python, Spark, and Terraform. Implemented new functionality based on business needs.

- Sharpened my cloud skills through use of AWS services and Terraform
- Led multiple initiatives on new technology like Apache Iceberg and Apache Airflow

Software Engineer | JP Morgan Chase

2019-2023

Worked on a project from the ground up with a small team of junior engineers to establish, maintain and update a record of JPMC's technology assets. Create multiple data pipelines to feed data into a calculation engine to combine and validate data and determine what technology assets were in use, where they were hosted, and metadata for them across JPMC.

- Leveraged Flask and Python to create a calculation engine
- Consumed data via Apache Kafka, REST calls, and SQL queries
- Visualized assets through the creation of a React UI
- Create a machine learning model to cluster similar records together to allow for easier identification of common assets

Software Engineer Intern | Liberty Mutual

Summer 2018

Took part of a summer internship on the eSign team. Helped with testing and basic development of a platform to allow for Agents and Customers to share and sign documents seamlessly.

- Coded features for a Java Spring Boot Platform
- Wrote BDD tests using Cucumber testing
- Helped train a machine learning model through the creation of training data