Josh Arford

Senior Data Scientist

Portfolio - arfsci.com

Education

University of Pittsburgh — Master of Science in Data Science (in progress)

Expected Graduation: August 2026

Appalachian State University — Bachelor of Science in Mathematics

Minor in Statistics and Economics | Class of 2020

Work Experience

CSCI Consulting (Deloitte Partner) Pittsburgh, PA

Senior Data Scientist   09/2022-Present

- Designed and deployed end-to-end data analysis software packages used in production across multiple client teams, reducing manual reporting time by 40%.
- Developed and implemented linear regression, time series forecasting, and root cause models to identify performance drivers and improve forecasting accuracy by 15%.
- Delivered data-driven insights and project proposals to Division Chiefs, influencing strategic initiatives and securing funding for new analytics projects.
- Mentored and trained 5+ junior developers in Python, SQL, and Databricks, raising team productivity and technical depth.

State Employees Credit Union Raleigh, NC *State bank with 7000+ employees.*

Investment Data Analyst   06/2021 – 09/2022

- Implemented data automation techniques resulting in a $100k/yearly savings for the department.
- Used decision trees to target customers for investment recommendations
- Implemented Naïve Bayes and K-Means Clustering models with customer investment data using Scikit. Created multiple models with 95%+ accuracy. Reduced the workload for investment application reviewers.
- Writing Visual Basic code for file reading, data cleaning, and data visualization in Excel

21st Mortgage Knoxville, TN *Mortgage servicing company with 1000 employees*

Data Analyst   08/2020-06/2021

- Implemented python code for automated visualizations, reports, and data cleaning
- Used Excel and Tableau to create dashboards with loan data
- Built and maintained robust data pipelines using ETL processes

PREVIOUS EXPERIENCE - (2018-2020)

Data Analyst Intern - Healthcare data, R programming, automation, and visualizations

Research Leader - COVID-19 data, linear regression, logistic regression, and data analysis

S-Stem Program - Attended weekly seminars with fellow S-STEM scholars, including leadership workshops and lectures given by highly accredited researchers in STEM fields

CONTACT

- Pittsburgh, PA
- 828-400-7136
- joshuaarford@gmail.com

SKILLS

Programming:
- Python
- R
- SQL
- VBA
- HTML

Expertise:
- Data Automation
- Data Analysis
- Software Development

Software:
- Databricks
- Excel
- Tableau
- SQL

Libraries:
- Tidyverse
- Pandas
- Numpy
- Scikit
- TensorFlow
- ggplot
- Matplotlib