

Nicole Watson Ciccarello

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SUMMARY

- Self-taught data engineer efficient in building ETL / ELT pipelines, software development, and software testing
- Leading group in building pipeline to determine in-flight entertainment for airliners based on passengers' needs
- Lead tester for engineering team responsible for migrating billions of data from CNN's library to the AWS cloud

RELEVANT WORK EXPERIENCE

Data Engineer

March 2022 - Present

Data Skills for All Fellowship - Data Engineering | Remote

- Selected for fellowship (4% acceptance rate) with learning facilitated through real-world business cases
- Direct team of 6 to construct an ETL pipeline to help airliners select in-flight entertainment for passengers
- Architect airliner ETL pipeline with Python, SQL, Hadoop, PySpark, Hive, and APIs with 1,000,000+ flight data

Founder and Data Analyst

July 2021 - Present

Nicky Loves Data | Atlanta, GA

- Founded a data analytics blog to deliver projects and knowledge on skills such as data management, data transformation, and data visualization
- Compiled 1000+ lines of historical datasets on Super Bowl games from CSV files into databases to analyze the correlation between game outcomes, viewership, and halftime shows
- Discovered with 95% confidence that Super Bowl viewership will decrease due to large team score differences

Advanced QA Analyst

March 2019 - Present

Warner Bros. Discovery | Atlanta, GA

- Spearhead tests to migrate petabyte-scale CNN digital content to AWS cloud for 2000+ employees
- Automated daily regression tests with Java and IntelliJ and reduced test time from 2-3 hours to 30-45 minutes
- Managed team collaboration as an Agile Scrum Master and increased team deliverable points by 30%

DATA ENGINEERING PROJECTS

YouTube Data ETL Pipeline

June 2022

- Develop an ETL pipeline to perform analysis on datasets of 100,000+ YouTube videos based on trending metrics
- **Tools and Languages Used:** Python, SQL, AWS Glue, S3, Quicksight, Lambda, Athena, RESTful APIs/JSON

Cryptocurrency Data Pipeline

April 2022

- Built an ETL data pipeline that extracts and parses 1000+ cryptocurrency data sets from API, saves data to an EC2 instance, and visualizes the data using Amazon Quicksight for data analysis
- **Tools and Languages Used:** Python, EC2, Hadoop/HDFS, Spark, PySpark, Hive, Amazon Quicksight

TECHNICAL SKILLS

Programming and Scripting Languages: Python • SQL • JavaScript • Java • Shell • R • XML

Amazon Web Services (AWS) Tools: S3 • RDS • EC2 • CloudWatch • QuickSight • Athena • Lambda • IAM • Redshift

Other Tools: Apache Spark • Hadoop / HDFS • Hive • Airflow • PostgreSQL • MapReduce • Power BI • Excel • Git • Jira

EDUCATION & CERTIFICATIONS

Harvard University, Extension School

May 2023

Professional Graduate Certificate - Computer Programming | Remote

Correlation One Data Skills for All

July 2022

Data Engineering Fellowship Certificate | Remote

University of South Florida

May 2013

BS in Mass Communications | Tampa, FL