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# Nicole Watson Ciccarello

Data Engineer

## SUMMARY

- Self-taught data engineer efficient in building ETL / ELT data pipelines, software development, software testing, and data analytics
- Leading group in building data system to determine in-flight entertainment for airliners with service management in mind
- Principal tester for team of engineers 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

Remote

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

### Founder and Data Analyst

July 2021 - Present

#### Nicky Loves Data

Atlanta, GA

- Founded a data analytics and engineering blog to deliver projects and knowledge on analytics tools and skills such as data management, data transformation, and root cause analysis on data
- 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 likely decrease due to large point differences between both teams

### Advanced QA Analyst

March 2019 - Present

#### Warner Bros. Discovery

Atlanta, GA

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

## DATA ENGINEERING PROJECTS

### YouTube Data ETL Pipeline

May 2022

- Develop an ETL big data pipeline to perform analysis on datasets of 100,000+ YouTube videos based on trending metrics
- **Tools and Languages Used:** Python, SQL, AWS Glue, AWS S3, Quicksight, AWS Lambda, AWS Athena, AWS IAM, 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 • Scala • 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 • MySQL • MapReduce • Power BI • Excel • Git • Jira • Linux (Ubuntu)

## EDUCATION

### BS in Mass Communications

May 2013

#### University of South Florida

Tampa, FL