Data Cleaning & Exploration

Preparing and Preprocessing the Job Market Dataset

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# Import Data

Loaded dataset: (72498, 131)

/var/folders/g7/sfc5tly50013vn\_cy1c842180000gn/T/ipykernel\_48822/4082786718.py:32: FutureWarning:  
  
A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.  
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.  
  
For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

# Data Cleaning & Preprocessing

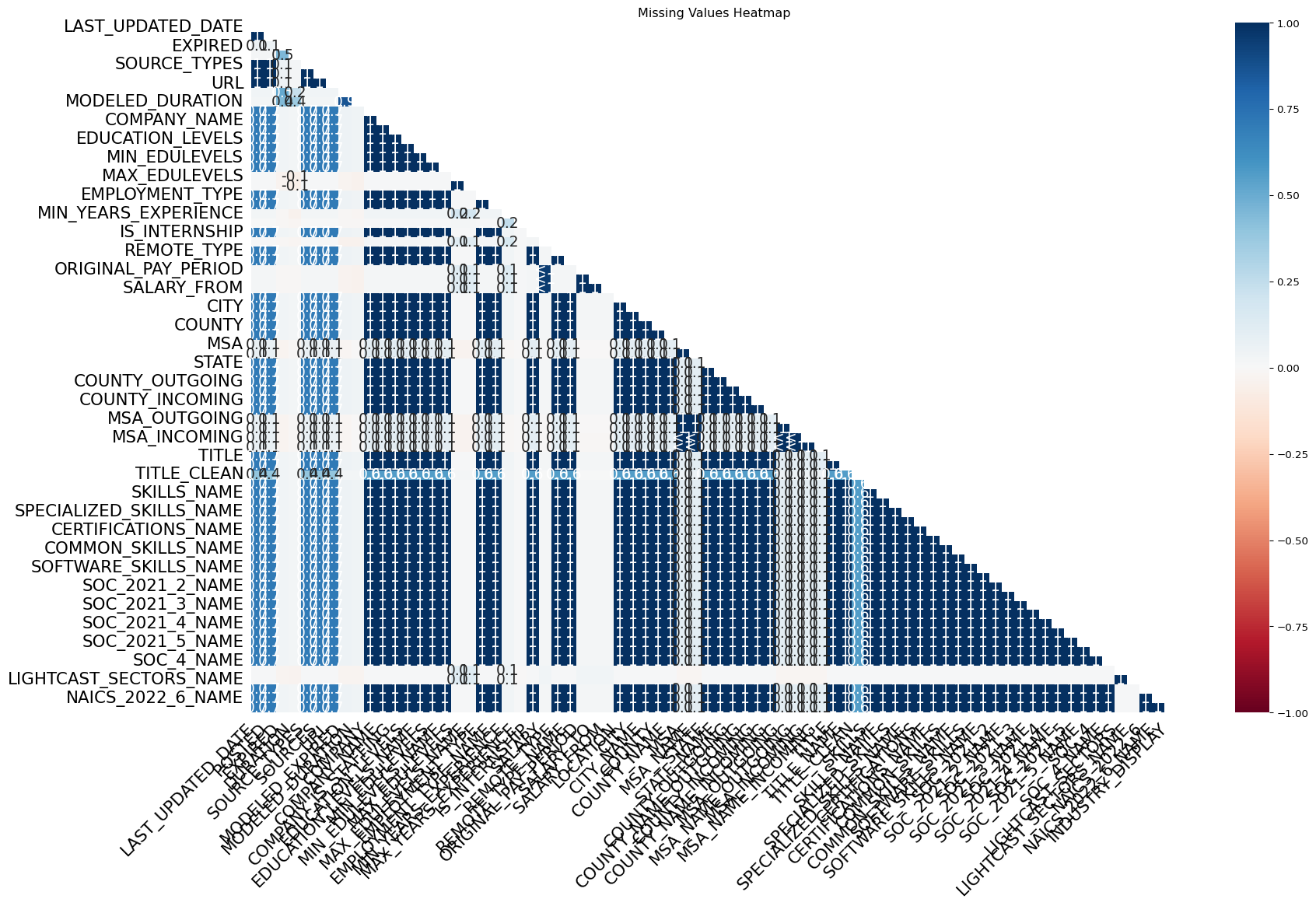
## Drop Unnecessary Columns

Derived non-null: {'INDUSTRY\_DISPLAY': np.int64(72454), 'SALARY\_DISPLAY': np.int64(72498)}

## Drop Unnecessary Columns

Remaining columns (first 30): ['LAST\_UPDATED\_DATE', 'POSTED', 'EXPIRED', 'DURATION', 'SOURCE\_TYPES', 'SOURCES', 'URL', 'MODELED\_EXPIRED', 'MODELED\_DURATION', 'COMPANY', 'COMPANY\_NAME', 'COMPANY\_IS\_STAFFING', 'EDUCATION\_LEVELS', 'EDUCATION\_LEVELS\_NAME', 'MIN\_EDULEVELS', 'MIN\_EDULEVELS\_NAME', 'MAX\_EDULEVELS', 'MAX\_EDULEVELS\_NAME', 'EMPLOYMENT\_TYPE', 'EMPLOYMENT\_TYPE\_NAME', 'MIN\_YEARS\_EXPERIENCE', 'MAX\_YEARS\_EXPERIENCE', 'IS\_INTERNSHIP', 'SALARY', 'REMOTE\_TYPE', 'REMOTE\_TYPE\_NAME', 'ORIGINAL\_PAY\_PERIOD', 'SALARY\_TO', 'SALARY\_FROM', 'LOCATION']

## Handle Missing Values



/var/folders/g7/sfc5tly50013vn\_cy1c842180000gn/T/ipykernel\_48822/2447604449.py:10: FutureWarning:  
  
A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.  
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/var/folders/g7/sfc5tly50013vn\_cy1c842180000gn/T/ipykernel\_48822/2447604449.py:13: FutureWarning:  
  
A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.  
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.  
  
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## Remove Duplicates

Removed 3300 duplicates using ['TITLE', 'COMPANY\_NAME', 'LOCATION', 'POSTED']