USA Career Job Listing EDA using Plotly

Import the desired Libraries

```
In [5]:
                                   import pandas as pd
                                    import numpy as np
                                    import matplotlib.pyplot as plt
                                    import seaborn as sns
                                    import warnings
                                    import plotly.express as px
                                    import wordcloud
                                    warnings.simplefilter('ignore')
                                   df=pd.read_csv(r'C:\Users\Ajay Dhariwal\Desktop\Github\usa career building\CareerBuilder_Jobs_2020.csv')
In [6]:
In [7]: missing values=df.isna().sum()
In [8]: df missing value=pd.DataFrame(missing values)
                                    df missing value.reset index(inplace=True)
                                    df_missing_value.columns=['Features','missing_count']
                                    df_missing_value['missing_percentage']=(100*df_missing_value['missing_count'])/len(df_missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missing_value['missi
                                    count'])
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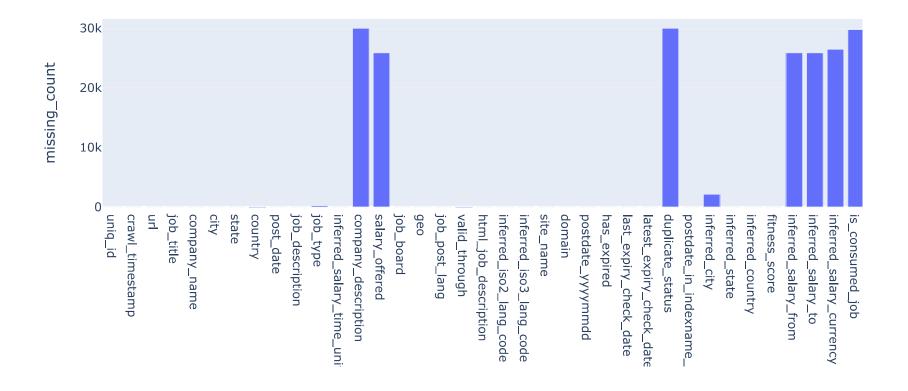
In [9]: df_missing_value.head()

Out[9]:

	Features	missing_count	missing_percentage
0	uniq_id	0	0.0
1	crawl_timestamp	0	0.0
2	url	0	0.0
3	job_title	0	0.0
4	company_name	0	0.0

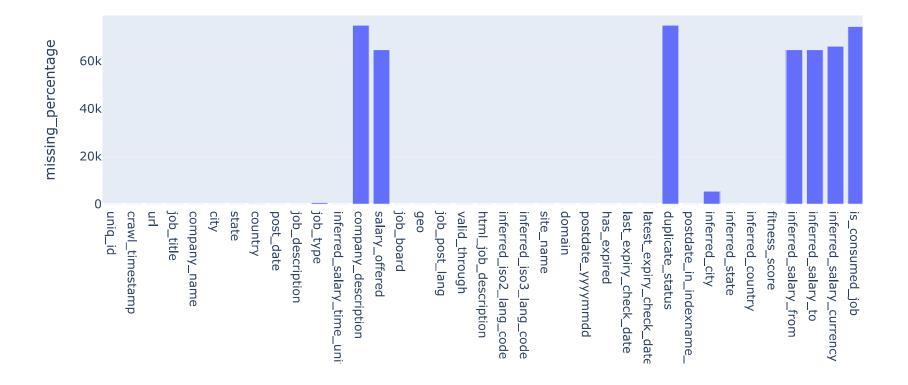
```
In [10]: fig = px.bar(df_missing_value, x='Features', y='missing_count',title='Missing_count_data')
fig.show()
```

Missing_count_data



```
In [11]: fig=px.bar(df_missing_value,x='Features',y='missing_percentage',title='Missing_Data_Percentage')
fig.show()
```

Missing_Data_Percentage



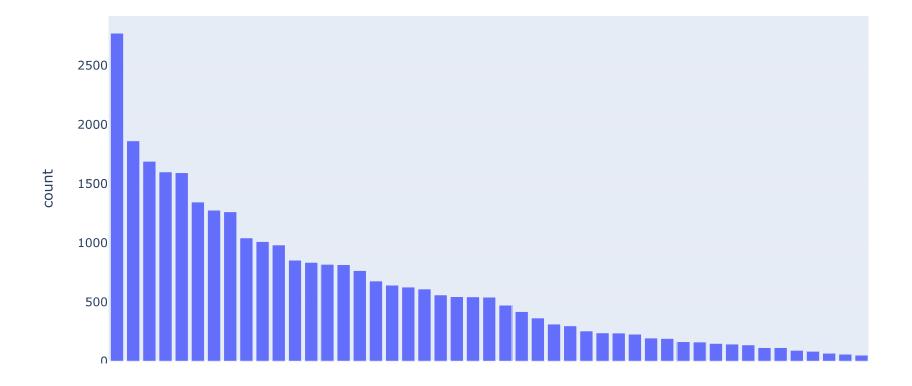
In [12]: df.isna().sum()

Out[12]:	uniq_id	0
	<pre>crawl_timestamp</pre>	0
	url	0
	job_title	0
	company_name	0
	city	0
	state	0
	country	9
	post_date	0
	job_description	0
	job_type	232
	inferred_salary_time_unit	0
	company_description	29982
	salary_offered	25854
	job_board	0
	geo	0
	job_post_lang	0
	valid_through	9
	<pre>html_job_description</pre>	0
	<pre>inferred_iso2_lang_code</pre>	0
	<pre>inferred_iso3_lang_code</pre>	0
	site_name	0
	domain	0
	<pre>postdate_yyyymmdd</pre>	0
	has_expired	0
	<pre>last_expiry_check_date</pre>	0
	<pre>latest_expiry_check_date</pre>	0
	<pre>duplicate_status</pre>	29982
	<pre>postdate_in_indexname_format</pre>	0
	inferred_city	2129
	inferred_state	0
	inferred_country	0
	fitness_score	0
	<pre>inferred_salary_from</pre>	25854
	inferred_salary_to	25854
	<pre>inferred_salary_currency</pre>	26464
	is_consumed_job	29767
	job_requirements	29979
	<pre>contact_email</pre>	29970
	test_contact_email	29978
	dtype: int64	

In [15]: fig=px.bar(df,x='job_title',y=df['job_title'])

```
In [16]: df_state=df['state'].value_counts()
    df_state1=pd.DataFrame(df_state)
    df_state1.reset_index(inplace=True)
    df_state1.columns=['state','count']
    fig1=px.bar(df_state1,x='state',y='count',title='States With the Most Job Vacancies')
    fig1.show()
```

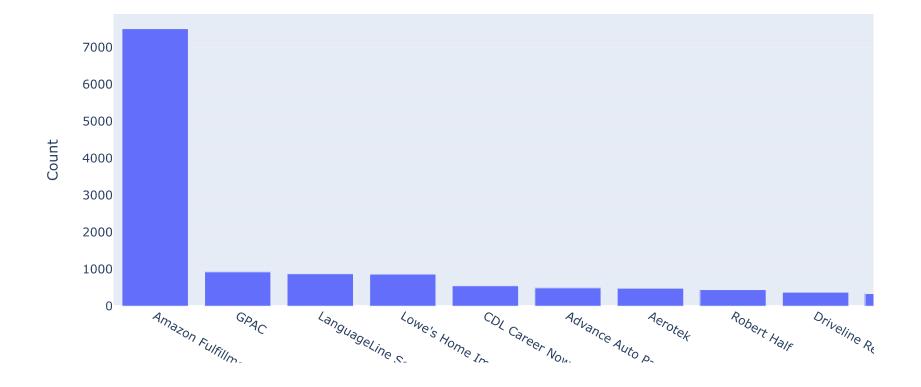
States With the Most Job Vacancies



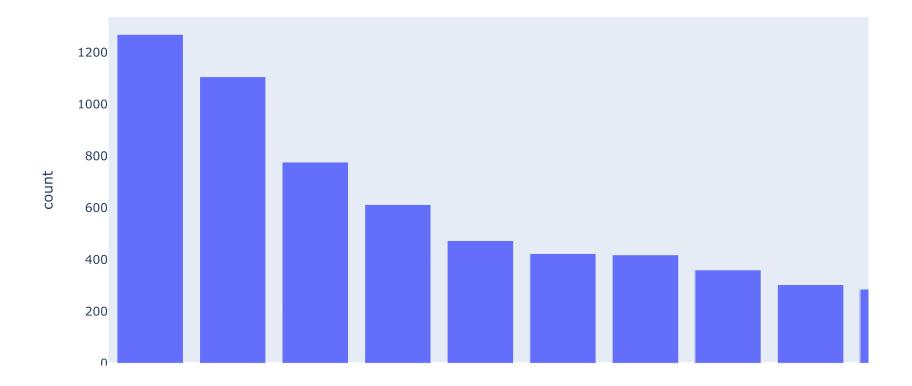
```
In [17]: df_company=df['company_name'].value_counts().sort_values(ascending=False)[:10]
```

```
In [18]: df_company1=pd.DataFrame(df_company)
In [19]: df_company1.reset_index(inplace=True)
In [20]: df_company1.columns=['Company_Name','Count']
In [21]: fig1=px.bar(df_company1,x='Company_Name',y='Count',title='Top_10 companies with Job openings') fig1.show()
```

Top_10 companies with Job openings

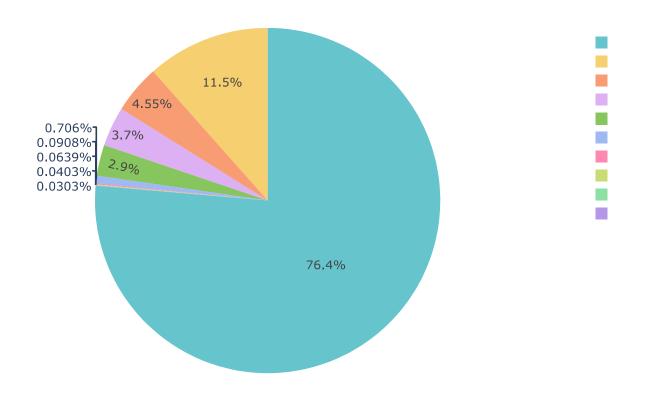


Top 10 states where Amazon fulfillment Jobs are Present



```
In [24]: df_jobtypes=df['job_type'].value_counts()
    px.pie(df_jobtypes,values=df_jobtypes.values,names=df_jobtypes.index,title='Number of Job Postings by Job tit
    le',
        color_discrete_sequence = px.colors.qualitative.Pastel)
```

Number of Job Postings by Job title



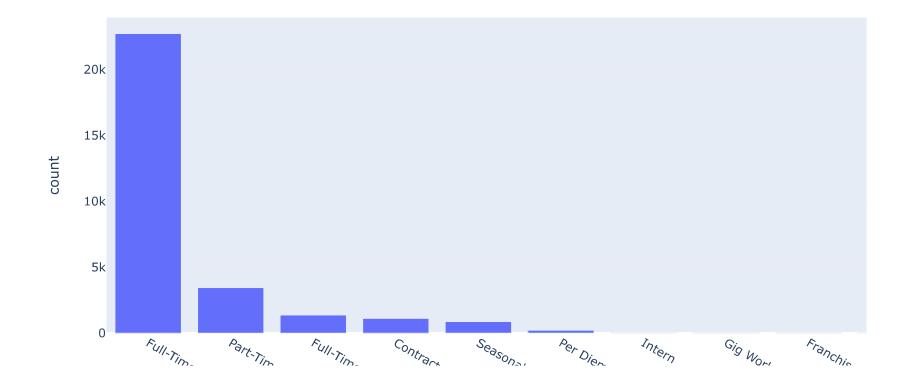
In [26]: df_company1.head()

Out[26]:

	Company_Name	Count
0	Amazon Fulfillment	7501
1	GPAC	924
2	LanguageLine Solutions	871
3	Lowe's Home Improvement	861
4	CDL Career Now	545

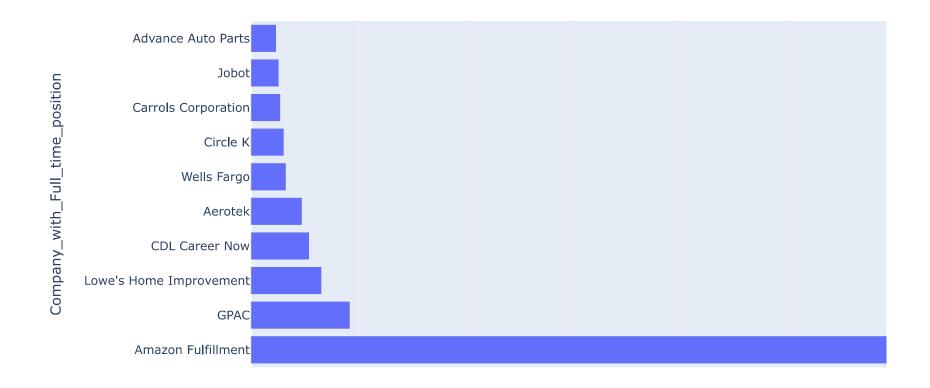
```
In [27]: fig=px.bar(df_job,x='job_type',y='count',title='Top 10 Job Types')
fig.show()
```

Top 10 Job Types



```
In [30]: fig=px.bar(j_df_,y='Company_with_Full_time_position',x='count',orientation='h',title='Top 10 companies with F
ull Time Positions')
fig.show()
```

Top 10 companies with Full Time Positions



```
In [32]: fig=px.bar(s_df_,x='Company_with_Full_time_position',y='count',title='Top 10 states with Full time job openin
gs')
fig.show()
```

Top 10 states with Full time job openings

