## Python-Elasticsearch

December 19, 2023

## Create the index

```
[3]: import requests
     # Elasticsearch server details
     base url = "http://localhost:9200"
     index_name = "software_jobs"
     username = "elastic"
     password = "<passwd>"
     # Index settings and mapping
     index_settings = {
         "settings": {
             "number_of_shards": 1,
             "number_of_replicas": 0
         },
         "mappings": {
             "properties": {
                 'job_id': {"type": "keyword"},
                 'title': {"type": "keyword"},
                 'company_name': {"type": "keyword"},
                 'location': {"type": "keyword"},
                 'via': {"type": "keyword"},
                 'description': {"type": "keyword"},
             }
         }
     }
     # Create the index with authentication
     response = requests.put(
         f"{base_url}/{index_name}",
         json=index_settings,
         auth=(username, password) # Include authentication parameters
     )
     # Check the response
     if response.status_code == 200:
         print(f"Index '{index_name}' created successfully.")
```

```
else:
    print(f"Error creating index: {response.content}")
```

Index 'software\_jobs' created successfully.

Post the job offers to the index

```
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'wNy6gYwBQYTzb0xES3w6', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 0, '_primary_term': 1}
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'wdy6gYwBQYTzb0xES3xW', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 1, '_primary_term': 1}
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'wty6gYwBQYTzb0xES3xf', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 2, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'w9y6gYwBQYTzb0xES3xn', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 3, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'xNy6gYwBQYTzb0xES3xu', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 4, '_primary_term': 1}
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'xdy6gYwBQYTzb0xES3x2', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 5, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'xty6gYwBQYTzb0xES3x8', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 6, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'x9y6gYwBQYTzb0xES3yD', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 7, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
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'yNy6gYwBQYTzbOxES3yJ', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 8, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'ydy6gYwBQYTzb0xES3yP', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 9, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'yty6gYwBQYTzb0xES3yV', ' version': 1, 'result': 'created', ' shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 10, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'y9y6gYwBQYTzb0xES3yd', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 11, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'zNy6gYwBQYTzb0xES3yj', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 12, '_primary_term': 1}
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'zdy6gYwBQYTzb0xES3yp', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 13, '_primary_term': 1}
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'zty6gYwBQYTzb0xES3yx', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 14, '_primary_term': 1}
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'z9y6gYwBQYTzb0xES3y4', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 15, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'ONy6gYwBQYTzbOxES3y-', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 16, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'Ody6gYwBQYTzbOxES3zG', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 17, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'Oty6gYwBQYTzbOxES3zL', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 18, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'09y6gYwBQYTzb0xES3zS', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, ' seq no': 19, ' primary term': 1}
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'1Ny6gYwBQYTzb0xES3zY', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 20, '_primary_term': 1}
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'1dy6gYwBQYTzb0xES3zi', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 21, '_primary_term': 1}
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'1ty6gYwBQYTzb0xES3zp', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 22, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'19y6gYwBQYTzb0xES3zv', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 23, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
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'2Ny6gYwBQYTzb0xES3z1', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 24, '_primary_term': 1}
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'2dy6gYwBQYTzb0xES3z9', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, ' seq no': 25, ' primary term': 1}
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'2ty6gYwBQYTzb0xETHwD', 'version': 1, 'result': 'created', 'shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 26, '_primary_term': 1}
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'29y6gYwBQYTzb0xETHwJ', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 27, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'3Ny6gYwBQYTzb0xETHw0', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 28, '_primary_term': 1}
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'3dy6gYwBQYTzb0xETHwU', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 29, '_primary_term': 1}
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'3ty6gYwBQYTzb0xETHwa', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 30, '_primary_term': 1}
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'39y6gYwBQYTzb0xETHwg', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 31, '_primary_term': 1}
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'4Ny6gYwBQYTzb0xETHwn', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 32, '_primary_term': 1}
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'4dy6gYwBQYTzb0xETHwv', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 33, '_primary_term': 1}
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'4ty6gYwBQYTzb0xETHw2', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 34, '_primary_term': 1}
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'49y6gYwBQYTzb0xETHw7', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, ' seq no': 35, ' primary term': 1}
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'5Ny6gYwBQYTzbOxETHxB', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 36, '_primary_term': 1}
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'5dy6gYwBQYTzb0xETHxH', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 37, '_primary_term': 1}
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'5ty6gYwBQYTzb0xETHxN', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 38, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'59y6gYwBQYTzb0xETHxU', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 39, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
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'6Ny6gYwBQYTzbOxETHxa', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 40, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'6dy6gYwBQYTzb0xETHxf', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, ' seq no': 41, ' primary term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'6ty6gYwBQYTzb0xETHxm', ' version': 1, 'result': 'created', ' shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 42, '_primary_term': 1}
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'69y6gYwBQYTzb0xETHxt', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 43, '_primary_term': 1}
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'7Ny6gYwBQYTzb0xETHx0', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 44, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
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1, 'successful': 1, 'failed': 0}, '_seq_no': 45, '_primary_term': 1}
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'7ty6gYwBQYTzb0xETHyA', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 46, '_primary_term': 1}
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1, 'successful': 1, 'failed': 0}, '_seq_no': 47, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'8Ny6gYwBQYTzbOxETHyN', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 48, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'8dy6gYwBQYTzb0xETHyS', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 49, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'8ty6gYwBQYTzb0xETHyY', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 50, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'89y6gYwBQYTzbOxETHyf', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, ' seq no': 51, ' primary term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'9Ny6gYwBQYTzbOxETHyl', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 52, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'9dy6gYwBQYTzb0xETHyr', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 53, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'9ty6gYwBQYTzb0xETHyx', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 54, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'99y6gYwBQYTzb0xETHy4', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 55, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
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'-Ny6gYwBQYTzb0xETHy-', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 56, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'-dy6gYwBQYTzb0xETHzE', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, ' seq no': 57, ' primary term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'-ty6gYwBQYTzb0xETHzK', 'version': 1, 'result': 'created', 'shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 58, '_primary_term': 1}
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'-9y6gYwBQYTzb0xETHzR', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 59, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'_Ny6gYwBQYTzb0xETHzY', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 60, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'_dy6gYwBQYTzb0xETHze', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 61, '_primary_term': 1}
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1, 'successful': 1, 'failed': 0}, '_seq_no': 62, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'_9y6gYwBQYTzb0xETHzs', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 63, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'ANy6gYwBQYTzb0xETH30', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 64, '_primary_term': 1}
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'Ady6gYwBQYTzb0xETH36', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 65, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'Aty6gYwBQYTzb0xETX0B', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 66, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'A9y6gYwBQYTzb0xETX0J', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, ' seq no': 67, ' primary term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'BNy6gYwBQYTzbOxETXOT', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 68, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'Bdy6gYwBQYTzb0xETX0d', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 69, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'Bty6gYwBQYTzb0xETX0k', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 70, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'B9y6gYwBQYTzb0xETX0r', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 71, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
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'CNy6gYwBQYTzbOxETXOy', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 72, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'Cdy6gYwBQYTzb0xETX04', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, ' seq no': 73, ' primary term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'Cty6gYwBQYTzb0xETX0 ', 'version': 1, 'result': 'created', 'shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 74, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'C9y6gYwBQYTzb0xETX1G', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 75, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'DNy6gYwBQYTzb0xETX1N', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 76, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'Ddy6gYwBQYTzb0xETX1U', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 77, '_primary_term': 1}
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'Dty6gYwBQYTzb0xETX1a', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 78, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'D9y6gYwBQYTzb0xETX1g', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 79, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'ENy6gYwBQYTzb0xETX1n', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 80, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'Edy6gYwBQYTzb0xETX1u', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 81, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'Ety6gYwBQYTzb0xETX10', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 82, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'E9y6gYwBQYTzb0xETX17', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, ' seq no': 83, ' primary term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'FNy6gYwBQYTzbOxETX2C', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 84, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'Fdy6gYwBQYTzb0xETX2I', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 85, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'Fty6gYwBQYTzb0xETX2P', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 86, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'F9y6gYwBQYTzb0xETX2V', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 87, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
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'GNy6gYwBQYTzbOxETX2j', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, '_seq_no': 88, '_primary_term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'Gdy6gYwBQYTzb0xETX2p', '_version': 1, 'result': 'created', '_shards': {'total':
1, 'successful': 1, 'failed': 0}, ' seq no': 89, ' primary term': 1}
Job uploaded successfully: {'_index': 'software_jobs', '_id':
'Gty6gYwBQYTzb0xETX2v', 'version': 1, 'result': 'created', 'shards': {'total':
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    Retrieve all data from the index
[5]: elasticsearch_url = "http://localhost:9200"
     index name = "software jobs"
     # Define the search query to match all documents
     query = {
         "query": {
             "match all": {}
         }
     }
     # Send the search request
     response = requests.get(
         f"{elasticsearch_url}/{index_name}/_search",
         json=query,
         auth=(username, password) # Include authentication parameters
     )
     # Check the response
     if response.status_code == 200:
         data = response.json()
         hits = data.get("hits", {}).get("hits", [])
         if hits:
             for hit in hits:
                 print(f"Document ID: {hit['_id']}")
                 print(f"Document Content: {hit['_source']}")
```

```
else:
    print("No documents found in the index.")
else:
    print(f"Error fetching data: {response.content}")
```

Document ID: wNy6gYwBQYTzb0xES3w6

Document Content: {'job\_id': 'eyJqb2JfdGl0bGUi0iJSZW1vdGUgU2VydmljZU5vdyBBZG1pbm lzdHJhdGlvbiB3aXRoIFB5dGhvbiwgUiwgQWR2YW5jZWQgU1FMLCBkYXRhYmFzZSwgZGF0YSBtYW5hZ2 VtZW50LUFXIiwiaHRpZG9jaWQi0iJtbGp0amdnLWxFQUF0eT1MQUFBQUFBPT0iLCJobCI6ImZyIiwiZm MiOiJFdUlCQ3FJQ1FVeFBibkJaV1ZkM2RrbERhblJWU1dZMFNEUmxhMnR2WjFScmVuZE5PVmR1ZUV0c0 4zSTNSRU5HWldkVVJWZDRiRzlwWm1wSmNXeHpPRTAzWVhWdFRWZFVkelJZWnpadVEwMUtUV1UwT0hCal VXNVJka1JLY1RWamFIWnhkV1Z3VjFCeFdWTkRVMDFSVXpKcFN6ZGtabWRpZEd0d1FsQktSMDl0YTFsaW VVVnlNbEpPWW5JeWNtcGxkV1V4Wms5b2JG0XVWR05YU2xodmVXaG50bk42Y1ZkM0VoZE1TRzk1V21WWV dVNWZhbkJ3ZEZGUU9UaGxZWE5CYnhvaVFVcDNheTAOWkc4dFpITkdZbGh0TUc1ak1IbDVUa2d6VDJ0Um NtWm1WRmhrVVEiLCJmY3Yi0iIzIiwiZmNfaWQi0iJmY18xIiwiYXBwbHlfbGluayI6eyJ0aXRsZSI6Ii 5uRmcyZWJ7Zm9udC13ZWlnaHQ6NTAwfS5CaTZEZGN7Zm9udC13ZWlnaHQ6NTAwfVBvc3R1bGVyJHN1ci BTYWx1dGVNeUpvYiIsImxpbmsiOiJodHRwczovL3NhbHV0ZW15am9iLmNvbS9qb2JzL3JlbW90ZS1zZX J2aWN1bm93LWFkbWluaXN0cmF0aW9uLXdpdGgtcH10aG9uLXItYWR2YW5jZWQtc3FsLWRhdGFiYXN1LW RhdGEtbWFuYWdlbWVudC1hdy1pcnZpbmUtY2FsaWYvMTE0MjA00Tc5Mi0yLz91dG1fY2FtcGFpZ249Z2 9vZ2x1X2pvYnNfYXBwbHlcdTAwMjZ1dG1fc291cmNlPWdvb2dsZV9qb2JzX2FwcGx5XHUwMDI2dXRtX2 11ZGl1bT1vcmdhbmljIn19', 'title': 'Remote ServiceNow Administration with Python, R, Advanced SQL...', 'company\_name': 'Cube Hub Inc.', 'location': ' Irvine, ', 'via': 'via SaluteMyJob', 'description': "Position Description: ServiceNow Developer for Asset Management team\n\nhis team is working a hybrid schedule, but fully remote candidates will be considered as well...\n. Recent college graduates are not a good fit for this position. In• Demonstrated knowledge in various programming languages (Python, R, Advanced SQL, etc.) MUST HAVE\n• 3+ Years experience of ServiceNow Administration MUST HAVE\n• Understanding of ServiceNow development environment, database, data management and infrastructure capabilities and constraints MUST HAVE\n• Business process knowledge of Hardware Asset Management (HAM), Software Asset Management (SAM), and procurement Preferred but not required \n · Ability to analyze, translate, and define business requirements into technical solutions, including advanced problem-solving ability - Preferred but not required\n• Excellence in verbal and written communication forms with emphasis on persuasive communication, tact and negotiation - Preferred but not required\nWhat Makes You Stand Out (Desired Skills/experiences)\n\nExperience with the following technologies:\n• Web technologies HTML, XML, or CSS\n• API integrations with other systems\n• Configuration of ServiceNow's ITSM service catalog\n• UI and SQL\n• Ability to manage many competing priorities/requests in a fast-paced environment. \n• ServiceNow Administration certification\n. Expert ITIL process knowledge\n. ITSM ServiceNow knowledge\n. Candidates who are selected for interviews will be required to complete a Glider assessment\*\*\*\nResponsibilities\n• Builds the work needed to implement functionality from the product backlog (managed by the product owner). \n• Analyzes assignments and determines software specifications that must be fulfilled to achieve objectives and get appropriate value from packaged solutions. \n. Tests deliverables against a user story's acceptance tests.\n• Completes system configuration settings to enable software

functionality that supports business processes.\n• Unit-tests software, creates automated test scripts and executes all other testing-related tasks.\n• Works closely with other team members to ensure that features meet business needs; Works collaboratively with infrastructure, security and other partners"}

Document ID: wdy6gYwBQYTzbOxES3xW

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automation to support Deployments.\n. Update Test automation to support CI/CD deployements.\n• Pre & Post Deployement validations on Apps.\n\nCompensation\n\nThe starting salary for this role differs based on the employee's primary work location. Employees typically do not start at the top of the range, though compensation depends on each individual's qualifications.\n\nLocation Based Pay Ranges\n\n\$94420 - \$118028 in these states: AR, ID, KY, LA, ME, MS, NE, SC, and SD.\n\$99390 - \$124230 in these states: AZ, FL, GA, IN, IA, KS, MO, MT, NM, ND, OH, OK, PA, TN, UT, VT, WV, WI, and WY.\n\$104360 - \$130448 in these states: CO, HI, MI, MN, NV, NH, NC, OR, and RI.\n\$109330 - \$136665 in these states: AK, CA, CT, DE, DC, IL, MD, MA, NJ, NY, TX, VA, and WA.\n\nAs with the pay range variety that's based on the region of a country, specific offers are determined by various factors such as experience, education, skills, certifications and other business needs.\n\nWhat to Expect Next\n\nRequisition #: 331220\n\nWhen applying for a position, you may be subject to a background screen (criminal records check, motor vehicle report, and/or drug screen), depending on the requirements for the position. More information on what's included in these checks can be found in the Post Offer section of our FAQ page. Job-related concerns noted in the background screen may disqualify you from the new position or your current role. Background results will be evaluated on a case-by-case basis.\n\nEEO Statement\nWe are committed to providing equal employment opportunities to all persons regardless of race, color, ancestry, citizenship, national origin, religion, veteran status, disability, genetic characteristic or information, age, gender, sexual orientation, gender identity, gender expression, marital status, family status, pregnancy, or other legally protected status (collectively, "protected statuses"). We do not tolerate unlawful discrimination in any employment decisions, including recruiting, hiring, compensation, promotion, benefits, discipline, termination, job assignments or training.\n\nDisclaimer\nThe above job definition information has been designed to indicate the general nature and level of work performed by employees within this classification. It is not designed to contain or be interpreted as a comprehensive inventory of all duties, responsibilities, and qualifications required of employees assigned to this job. Job duties and responsibilities are subject to change based on changing business needs and conditions.\nSalary Range\nSalary Min :\n\n94420\n\nSalary Max :\n\n136665\n\nThis information reflects the base salary pay range for this job based on current national market data. Ranges may vary based on the job's location. We offer competitive pay that varies based on individual experience, qualifications and other relevant factors. We encourage you to apply to positions that you are interested in and for which you believe you are qualified. To learn more, you are welcome to discuss with us as you move through the selection process"}

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database and data warehousing.\n\nShould have several iteration of Software

development life cycle (SDLC) experience\n\nwell versed Experience working with Agile methodology, preferably have Manufacturing App experience..\n\nQualifications:\n• 8 years' experience developing with any object-oriented language: e.g., Python, Java, or C++.\n• 3 years' experience specifically developing in Python.\n• 3 years' experience in relational or NoSQL database solutions and Web Frameworks such as Flask or Django.\n\nPreferred Qualifications:\n• Experience working in large, structured software development teams\n• Experience working across multiple distinct systems\n• Our Technologies:\n• Google Cloud Project: Spanner, Big Query, Relational Databases Python 3.9+\n• Git\n• Manufacturing Shop Floor Control Systems\n\nIf you are qualified, available, interested, planning to make a change, please feel free to reach me.\n\nThanks & Regards\n\nPrashant Bhardwaj\n\nSenior US IT Recruiter\n\nZodiac Solutions Inc.\n\n2625 N Josey Ln STE 320, Carrollton, TX 75007\n\nwww.zodiac-solutions.com\n\nEmail: prashant.bhardwaj@zodiac-solutions.com\n\nOffice: 484-953-8110'}

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Automated Driving Systems Engineer - C++ and Python\n\nHybrid Schedule. Must be local to work on site in Ann Arbor, MI, as needed. Average days on site estimated: 6-12 days/month...\n\nJob ID: 1266679 - Location: Ann Arbor, MI 48105\n\nPay Rate: Very Competitive w/OT paid over 40 hours in a week, with benefits options: Health, Dental, Vision, 401(k), company paid holidays\nType of hire: Contract, long-term with ongoing potential. No travel anticipated.\n\nPosition Summary:\n\nIntegrated Vehicle Systems Department is looking for a passionate and highly motivated Software Engineer. The primary responsibility of this role is to develop advanced driver system and software in C/C++ and support overall software quality auditing.\n\nIVS department's objective to design and evaluate the next generation of automated driving systems for the company's vehicles.\n\nPosition Responsibilities:\n• Design ADS systems and software logic in C/C++\n• Complete logic development by making design requirements, confirming/testing logic, and ensuring quality and all safety concepts into software design. \n. Utilize and create support tools with Python code\n. Position Requirements: The schedule will be a hybrid schedule working at least 6 days a month from the office, however there may be times where this candidate will need to report to the office more frequently therefore this candidate must be flexible. \n. B.S. in Computer Science, related fields, or commensurate work experience.\n• Experience as a production software engineer (3 years).\n. Experience building, implementing, and supporting medium to large scale solutions in C/C++ and Python\n• Experience using GIT., Experience performing performance analysis, troubleshooting, and remediation in a software and integration environment (3 year). \n• Self-starter with the ability to work independently or as part of a project team with limited supervision. \n\nWhat you may bring: \n. C/C++ or Python Certification (foundational, associate, professional, or specialty).\n• A valid US drivers' license.\n• Experience with dynamics-based vehicle simulation (1 year)\n• Experience developing software in a team setting, creating pull requests, conducting peer reviews. \n. Experience using ROS1 or ROS2\n• Familiarity with Docker\n• Experience developing code on Linux platforms, writing shell scripts. \n. Web development experience (html, JavaScript, CSS)\n• Experience using plotting tools like plot.ly, bokeh, matplotlib.\n. Experience using cloud services (AWS, Azure)\n. Time-series database experience\n\nCompany DescriptionGlobal Technology Associates, LTD can take your career search or hiring needs to the next level. As a premier technical and professional staffing company, with over 30 years of industry experience, we have longstanding connections in industries like automotive, aeronautics, information technology, defense, and healthcare. GTA can provide you with a full breadth of diverse candidates from our talent network. GTA is a national full-service provider of direct and contract professionals and top management talent"}

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Kubernetes, ELK (Elasticsearch, Logstash & Kibana).\n\nMust have excellent

experience in designing and Implementing cloud-based solutions in various AWS Services (: s3, Lambda, Step Function, AMQ, SNS, SQS, CloudWatch Events, etc.)\n\nMust be well experienced in design and development of Microservice using Spring-Boot and REST API and with GraphQL.\n\nMust have solid knowledge and experience in NoSQL (MongoDB).\n\nGood knowledge and experience in any Queue based implementations.\n\nStrong knowledge/experience in ORM Framework - JPA / Hibernate.\n\nGood knowledge in technical concepts - Security, Transaction, Monitoring, Performance.\n\nShould we well versed with TDD/ATDD.\n\nShould have experience on Java, Python and Spark.\n\n2+ years of experience in designing and Implementing cloud-based solutions in various AWS Services.\n\nStrong experience in DevOps tool chain (Jenkins, Artifactory, Ansible/Chef/Puppet/Spinnaker, Maven/Gradle, Atlassian Tool suite).\n\nVery Good knowledge and experience in Non-Functional (Technical) Requirements like Security, Transaction, Performance, etc.\n\nExcellent analytical and problem-solving skills.\n\nNice to have:\n\nExperience in Experience with OAuth implementation using Ping Identity\n\nExperience in API Management (Apigee) or Service Mesh (Istio)\n\nGood knowledge and experience in Queue/Topic (Active-MQ) based implementations\n\nGood knowledge and experience in Scheduler and Batch Jobs\n\nExperience with scripting languages using Unix\n\nPreferably certified in AWS'}

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Interfaces using Python, Data Frames, Pandas etc. and nbsp; \n. Integration with back-end technologies and frameworks, such as Node.js, .NET, or Java. and nbsp; \n. Build Data Access Layer and metadata-driven data query tool. and nbsp; \n• Write clean, reusable, and well-documented code that follows best practices and coding standards. and nbsp;\n. Collaborate with back-end developers to integrate UI components with server-side systems and APIs. Ensure efficient data retrieval and synchronization, handle data validation and error handling, and optimize API performance. and nbsp; \n • Work in an iterative/Agile environment as a good team player. and nbsp; \n• Ability to manage multiple tasks and projects simultaneously. \n. Work with the latest CI/CD DevOps deployment model\u200b\n\nRequirements and nbsp;\n• 7+ years of experience in Python programming and nbsp;\n. Strong knowledge of Python libraries like Pandas and NumPy and nbsp; \n. Experience in frameworks like Django, Flask, or any other web frameworks and nbsp; \n. Experience in UI library or Framework such as React, Angular or Vue (Preferred React) and nbsp;\n• Proficient with Data structures and Collections and nbsp;\n. Experience in Relational (MySQL, Postgres) and No SQL (Cassandra, Mongo) database technologies and nbsp; \n• Experience in designing and developing distributed and amp; scalable systems using OOPS and/or Functional programming and nbsp; \n. Experience in Distributed Computing and High Velocity data processing and nbsp; \n. Exposure to CI/CD tools like Jenkins, Maven, Git etc. and nbsp"}

Eventually delete the index

```
[2]: #response = requests.delete("http://localhost:9200/software_jobs", auth =u (username, password))
#response.text
```

[2]: '{"acknowledged":true}'