

With our flagship *DataInFormation<sup>SM</sup>* suite of solutions for Image Labeling, Data Annotation, NLP Calibration and Form Data Capture, Liberty Source is proud to serve a wide range of clients across many industry verticals. Our *Solution Briefs* provide a snapshot of the challenges clients bring to us, and the outcomes we achieve for them.

### Resume Mining for Industry-Specific Expertise

|                  |                |           |                                    |
|------------------|----------------|-----------|------------------------------------|
| Industry         | Best Practices | Data Type | Semi-Structured Text (.pdf, .docx) |
| Project Duration | 30 Days        | Ongoing?  | Yes                                |

### Challenge

The type of information contained in resumes is generally consistent - but the format, content, and level of detail varies significantly from one document to another. This inconsistency makes it difficult or impossible to accurately parse the data programmatically. Parsing and capturing data becomes even more difficult when mining resumes for information related to very specific questions or applicant attributes. .

### Solution

Our Data Associates reviewed over 1,000 resumes per day and captured specified information which could not be performed by unassisted AI or ML applications due to the significant variance in file types, resume format, and phraseology. For example, our human-in-the-loop approach allowed Associates to leverage context and judgment to determine the likely location of applicants based on school or work history rather than their mailing address, and to identify specific skills, awards, and other attributes that may not be specifically labelled as such.

### Outcome

Being able to accurately identify and capture these kinds of specific details enabled the client to categorize applicants in a more precise way – streamlining downstream reviews and enhancing compliance with applicable regulations.

## Resume Mining for Industry-Specific Expertise

Input: resume document

**WORK EXPERIENCE**

**Regional Property Manager, Carbyne Housing Development**  
 March 2017 - Present

- Manage the overall management of our community in a fast-paced environment. Overseeing all operations including maintenance, capital improvements, lease administration, budgeting, reporting, reporting, collecting, receiving, tenant administration, marketing, lease renewals, move-in contracts, and move-out activities.
- Providing exceptional customer service and communication for our residents and prospects to enhance customer satisfaction and increase renewals, reduce evictions and provide a consistent experience. Working with a large team of professionals to ensure the highest quality of service for our residents and prospects.
- Manage and coordinate all maintenance and repair projects and requests for assigned buildings.
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**Property Manager, Appleton Housing**  
 March 2017 - Present

- Manage the overall management of our community in a fast-paced environment. Overseeing all operations including maintenance, capital improvements, lease administration, budgeting, reporting, reporting, collecting, receiving, tenant administration, marketing, lease renewals, move-in contracts, and move-out activities.
- Providing exceptional customer service and communication for our residents and prospects to enhance customer satisfaction and increase renewals, reduce evictions and provide a consistent experience. Working with a large team of professionals to ensure the highest quality of service for our residents and prospects.
- Manage and coordinate all maintenance and repair projects and requests for assigned buildings.
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- Coordinate all maintenance and repair projects and requests for assigned buildings.

**Assistant Property Manager, Orange County Residences**  
 March 2017 - Present

- Manage the overall management of our community in a fast-paced environment. Overseeing all operations including maintenance, capital improvements, lease administration, budgeting, reporting, reporting, collecting, receiving, tenant administration, marketing, lease renewals, move-in contracts, and move-out activities.
- Providing exceptional customer service and communication for our residents and prospects to enhance customer satisfaction and increase renewals, reduce evictions and provide a consistent experience. Working with a large team of professionals to ensure the highest quality of service for our residents and prospects.
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Verification and correction of 'first-pass' annotation.

Human-In-the-Loop Review improves output accuracy, improves first-pass annotation



**Work Experience**

Assistant Property Manager  
 Orange County Residences

476 x 284

Company Name  
 Carbyne Housing Development

Box

Attributes Point labels Group

Position/Title  
 Property Manager

years of experience  
 8

Company Name  
 Appleton Housing

Output: JSON

```
source.com", "role": "QA", "className": "Education"}, {"type": "bbox", "className": "1599206", "probability": 100, "points": [{"x1": 131.4, "x2": 602.64, "y1": 1004.57, "y2": 1132.58}], "groupID": 0, "pointLabels": {}, "locked": false, "attributes": [{"groupID": 705750, "name": "Certified Property Manager (CPM)", "initial": "", "isOCR": false, "groupName": "Certifications"}], "trackingID": null, "error": null, "createdAt": "2023-04-27T18:21:19.312Z", "createdBy": {"email": "andrew.snyder@liberty-source.com", "role": "Annotator"}, "creationType": "Manual", "updatedAt": "2023-04-27T18:21:19.000Z", "updatedBy": {"email": "andrew.snyder@liberty-source.com", "role": "Annotator"}, "className": "Skills"}, {"type": "bbox", "className": "1599203", "probability": 100, "points": [{"x1": 443.02, "x2": 2386.04, "y1": 148.89, "y2": 412.92}], "groupID": 0, "pointLabels": {}, "locked": false, "attributes": [{"groupID": 705729, "name": "Leslie Morrison", "initial": "L", "isOCR": false, "groupName": "Name"}, {"groupID": 705729, "name": "8589219943", "initial": "", "isOCR": false, "groupName": "Phone number"}, {"groupID": 705731, "name": "emmet2017@hotmail.com", "initial": "", "isOCR": false, "groupName": "Email"}], "trackingID": null, "error": null, "createdAt": "2023-04-27T18:21:37.602Z", "createdBy": {"email": "andrew.snyder@liberty-source.com", "role": "Annotator"}, "creationType": "Manual", "updatedAt": "2023-04-27T18:29:10.269Z", "updatedBy": {"email": "kukunnica.goo@den@liberty-source.com", "role": "QA"}, "className": "Personal Info"}, {"type": "bbox", "className": "1599203", "probability": 100, "points": [{"x1": 121.44, "x2": 659.66, "y1": 504.32, "y2": 880.06}], "groupID": 0, "pointLabels": {}, "locked": false, "attributes": [{"groupID": null, "error": null, "createdAt": "2023-04-27T18:21:41.772Z", "createdBy": {"email": "andrew.snyder@liberty-source.com", "role": "Annotator"}, "creationType": "Manual", "updatedAt": "2023-04-27T18:29:18.250Z", "updatedBy": {"email": "kukunnica.goo@den@liberty-source.com", "role": "QA"}, "className": "Personal Info"}]}
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