

# Resume Parsing



RESUME

# THE CUSTOMER

Our client is one of the leading resource augmentation service providers based out of US. They offer manpower services for different positions and across different industries. They process several resumes in a day with docx, doc and rtf formats using existing system and the output will be delivered in HRXML format.



# THE CHALLENGE

The following were the key challenges faced by the client,

- **Dependency** - The client was fully reliable on the existing system which parses resumes only in three different formats.
- **Non Customizable** - The HRXML output from the existing system could not be customized as per the client's requirement.
- **Time Consuming** - The parsing time taken by the existing system for a resume remained as an issue, as the volume of resumes to be parsed in a day was higher.

# THE SOLUTION

We at Agira, carefully analyzed the existing system and client's requirement and decided to build a new application,



- The new application was architected into two components,
  1. Web based UI
  2. Parsing Engine
- The UI was designed with the help of 'Django'.
- Users could easily upload the resumes from UI and view the different sections of resumes.
- Advanced filtering features were built to let users to customize the candidate parameters for parsing the resumes.
- Parsing engine was built using Regular Expression (RE) module in Python.
- This enabled users to choose resumes in any of these formats[.docx, .doc, .rtf, .txt, .pdf, .html]
- With the help of 'Postman', the output could be generated in customizable 'HRXML' format and 'JSON' format
- 'Postgresql' database was used to handle the parsed data.

# KEY INTEGRATIONS



## Client Testimonial

"It's been a pleasure working with you and the team as well. The parser beat our expectations for accuracy in the short time it was built. The team did a great job and we appreciate the effort."

## Screenshots:

### Resumes Index:

Resumes	
Resume Name	View
01cd2b1c-4f26-4364-86ae-a8d7bbf3bcff	
02777f40-3216-49ee-821e-13bfa3e03530	
02bd8a2c-3b7c-4560-9331-7fcf6e386dd0	
06e4dd82-9e32-4510-a035-03a03159f503	
072ad13f-9b0b-4ca6-a4d9-2070c8d7c73b	
080315e4-6291-48f6-b7d5-679199d34d72	
0920774d-1f18-46c2-b15d-d99744ce6a0f	
0dcdf570e-3ae8-4988-8d46-4650994556d0	
0e7c9ee7-699a-4193-bac4-0d4fc119d9e	
105c55a2-26ac-4c51-aae0-322bbed5ca32	
1404bfe7-9aa2-412e-afba-3a36c07e2d34	
18b3aef0-70b6-4ed3-880f-8b3ec27c7dfb	

### Personal Details section:

Resume		
Details	Educations	Employments
Details - DAXTRA		Details - PRORANK
Resume Name:	01cd2b1c-4f26-4364-86ae-a8d7bbf3bcff	Resume Name:
Person Name:	Santhosh Balla	Person Name:
Mobile	+1 703 887 9855	Mobile
Home		Home
Phone:		Phone:
Postal Address:	Indianapolis IN US	Postal Address:
InternetWebAddress:	<a href="https://www.linkedin.com/in/santhosh-balla-632a937">https://www.linkedin.com/in/santhosh-balla-632a937</a>	InternetWebAddress:
InternetEmailAddress:	santhoshsballads@gmail.com	InternetEmailAddress:

# TECHNOLOGY SNAPSHOT

## Education section:

Resume

Home - Resume

Details    Educations    Employments

Educations - DAXTRA

ID	School Name	Location Summary	DegreeName	Major	StartDate	EndDate	GPA	EducationText	DegreeDate
6954	Andhra University	Visakhapatnam Andhra Pradesh IN	B.S.	Metallurgical Engineering					

Educations - PRORANK

ID	School Name	Location Summary	DegreeName	Major	StartDate	EndDate	GPA	EducationText	DegreeDate
7145		Morgantown, WV						Masters, M.S., Applied Mathematics, WVU, Morgantown, WV, USA - Masters, M.S., Computer Science, WVU, Morgantown, WV, USA - Masters, M.S., Mechanical Engineering, WVU, Morgantown, WV, USA	
7146	Andhra University	Visakhapatnam, India						- Bachelors, B.S., Metallurgical Engineering, Andhra University, Visakhapatnam, India	

## Employment Section:

Details    Educations    Employments

Employments - DAXTRA

ID	33838	Title	StartDate	EndDate	Description
Employer Org Name	ICSA Inc.		2010-09		
LocationSummary	Ashburn VA US				

ID	33839	Title	StartDate	EndDate	Description
Employer Org Name	GMU	Database Analyst	2005-01	2010-09	
LocationSummary	Fairfax VA US				

ID	33840	Title	StartDate	EndDate	Description
Employer Org Name	WVU	Database Administrator	2000-08	2004-12	
LocationSummary	Morgantown WV US				

Employments - PRORANK

ID	34774	Title	StartDate	EndDate	Description
Employer Org Name			201009		Launched EC2 instances, created and configured Amazon Machine Images (AMI), volumes and snapsh...
LocationSummary					

# BUSINESS BENEFITS

The client was delighted with the new application built. Some of the key areas that helped their business,



- The entire application was built in the time span of 3 months and thus helped the client to migrate to the new system
- The new application benchmarked an accuracy rate of 70% compared to existing system, which is higher than what is expected by the client
- Performance time is highly efficient and lies between 5-7seconds for handling both 20 as well as 12,000+ resumes at the same time.
- The new application has value added feature to compare the parsed resumes with other systems.



## ABOUT AGIRA

Agira is one of the fastest growing technology companies, Agira Technologies specializes in crafting solutions for entrepreneurs, medium sized organizations, agencies and start-ups. With a blend of ingenuous expertise, system prowess, and cloud compatibility, Agira Technologies endeavors to maximize the profit that clients educe from their IT investment. We deliver full-cycle product development, right from scoping through production to deployment onwards to support and maintenance, with a keen attention to detail.

Our major aim is to offer seamless solutions to our clients with 100% satisfaction and error-free assurance. Expert in RoR, Laravel, Symfony and a few other open source platforms, we always adapt globally accepted validations and standards to provide a better user experience with ultimate outcomes.



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