Use case

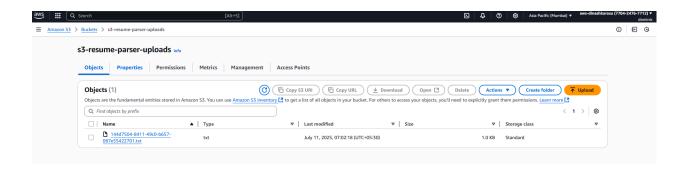
Use case Description

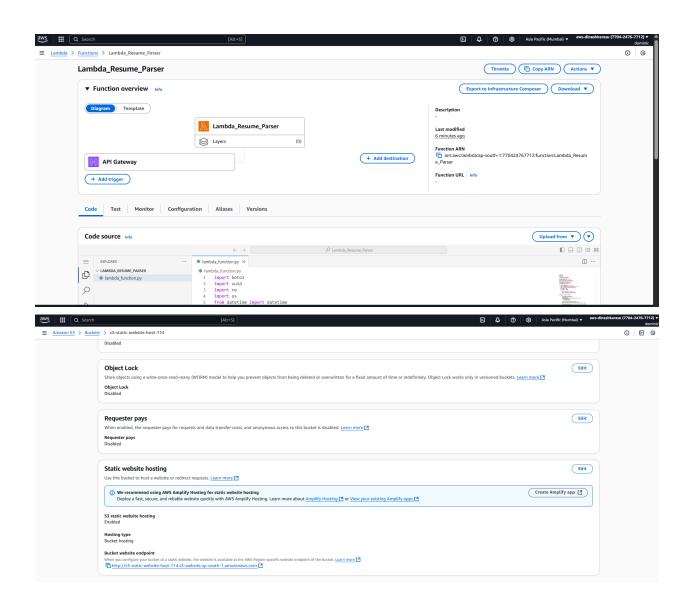
Mini-project: Resume Parser

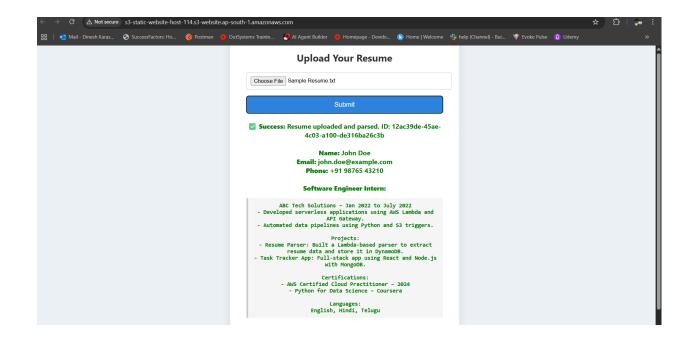
Upload resume file and parse it then store it in db

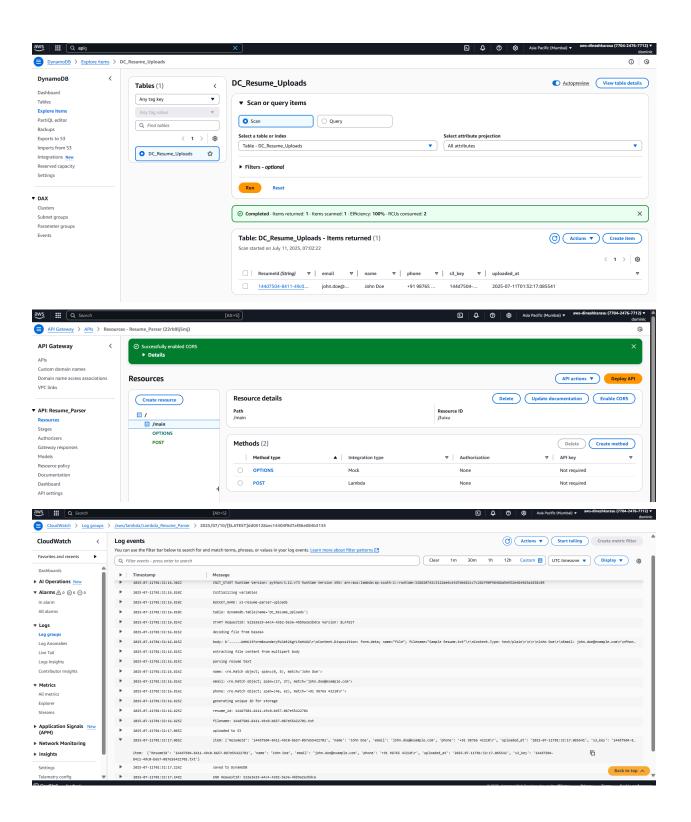
Approach:

- 1. Create S3 bucket to store uploaded resume files
- 2. Create a dynamo db table to store parsed data
- 3. Create a Lambda function to process the uploaded file and parse it then store it in db
- 4. Create API Gateway POST method with CORS enabled
- 5. Code front end and JS to hit the API from the end user screen
- 6. Provide Lambda with proper IAM permissions
- 7. Test the flow

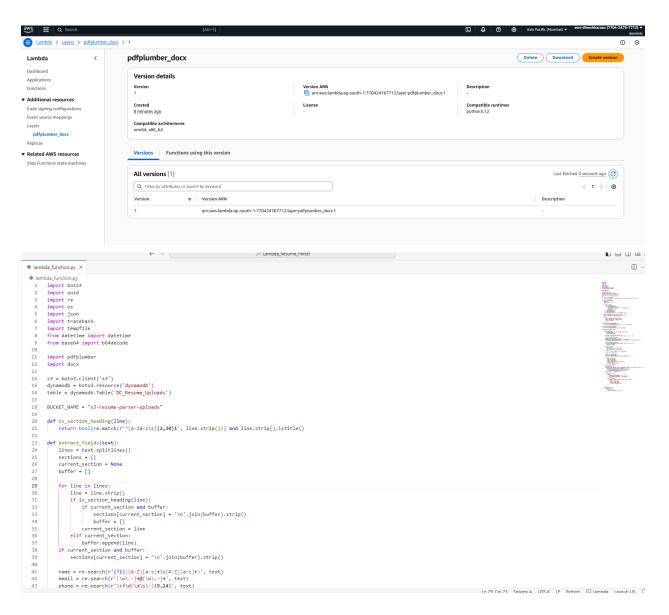








Since the above approach only works for .txt files but not pdf and docx files as we are using regular expressions, let's go with another approach using python-docx We'll keep everything as it is and modify our lambda code. Create a layer then update the lambda code



```
□ …
  lambda_function.py ×
  'name': name.group() if name else 'N/A',
'email': email.group() if email else 'N/A',
'phone': phone.group() if phone else 'N/A',
'sections': sections
                    def extract_text_from_pdf(file_path):
    with pdfplumber.open(file_path) as pdf:
        return "\n".join([page.extract_text() or "" for page in pdf.pages])
                      def extract_text_from_docx(file_path):
    doc = docx.Document(file_path)
    return "\n".join([para.text for para in doc.paragraphs])
                          def lambda_handler(event, context):
                                                       /:
body = event['body']
is_base64_encoded = event.get('isBase64Encoded', False)
if is_base64_encoded:
| body = b64decode(body)
                                                     # Extract file content from multipart body
file_binary = body.split(b'\r\n'\n'\n', 1)[1].rsplit(b'\r\n-----', 1)[0]
                                                    # Extract filename from headers
header_line = body.split(b'\r\n', 2)[1]
filename_match = re.search(b'filename="(.+?)"', header_line)
filename_match = re.search(b'filename="(.+?)"', header_line)
filename_match = re.search(b'filename="docode()")
filename_match else f"(uvid.uvid4()).txt"
ext = filename.lower().split('.')[-1]
                                                       # Save to temp file for parsing
                                                       with tempfile.NamedTemporaryFile(delete=False, suffix=f".{ext}") as tmp:
    tmp.write(file_binary)
    tmp_path = tmp.name
                                                     # Parse file content
if ext == 'pdf':
    text = extract_text_from_pdf(tmp_path)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ln 29. Col 23 Spaces: 4 UTF-8 LF Python □ Lambda Layout: US □
lambda function.pv ×
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                      def lambda_handler(event, context):
                                                    item = {
    "RecumeId': resume_id,
    "name": parsed["name"],
    "email': parsed["name"],
    "phone": parsed["phone"],
    "upLoaded_at': datetime.utcnow().isoformat(),
    "s3.key": s3 key,
    "sections': parsed['sections']
                                                     table.put_item(Item=item)
                                                     cleaned_sections = {}
                                                     cleaned_sections = {}
main_fields = {parsed['name'].lower(), parsed['email'].lower(), parsed['phone'].replace(" ", "")}
for section_title, section_text in parsed['sections'].items():
    lower_text = section_text.lower().replace(" ", "")
    if not any(field in lower_text for field in main_fields):
        cleaned_sections[section_title] = section_text
    parsed['sections'] = cleaned_sections
                                                       return {
    'statusCode': 200,
    'beadage': {
                                                                          'headers': {
   'Access-Control-Allow-Origin': '*',
   'Access-Control-Allow-Hethods': 'POST, OPTIONS',
   'Access-Control-Allow-Headers': 'Content-Type'
                                                                  })
                                         except Exception as e:
traceback.print_exc()
return {
```

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