

jsonresume Package Documentation

A LuaLaTeX Package for Rendering JSON Resume Data

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Abstract

The `jsonresume` package provides a simple way to render resume data from JSON Resume format files into professionally formatted LaTeX documents. It supports loading data from local files or remote URLs, includes optional schema validation, and provides commands for rendering individual sections or the complete resume. This package requires LuaLaTeX.

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1 Introduction

The `jsonresume` package allows you to separate your resume content from its presentation. By storing your resume data in the standardized JSON Resume format (<https://jsonresume.org/>), you can:

- Maintain a single source of truth for your resume data
- Render your resume in different formats and styles
- Load resume data from local files or web URLs
- Validate your data against the JSON Resume schema

The package supports all 12 sections defined in the JSON Resume schema: basics, work, volunteer, education, awards, certificates, publications, skills, languages, interests, references, and projects.

2 Requirements

- **LuaLaTeX** – This package requires LuaLaTeX and will not work with pdfLaTeX or XeLaTeX.
- **curl** – Required for loading resume data from URLs. This is pre-installed on most systems.
- **Shell escape** – Required for URL loading. Compile with `--shell-escape` option.

3 Installation

3.1 From CTAN / TeX Live

If the package is installed via your TeX distribution (TeX Live, MiKTeX), it should be available automatically. Simply use:

```
\usepackage{jsonresume}
```

3.2 Manual Installation

Copy `jsonresume.sty` and `jsonresume.lua` to either:

1. Your project directory (alongside your `.tex` file), or
2. Your local texmf tree:

```
mkdir -p ~/texmf/tex/latex/jsonresume
cp jsonresume.sty jsonresume.lua ~/texmf/tex/latex/jsonresume/
```

4 Quick Start

Here is a minimal example to get started:

```
\documentclass[11pt,letterpaper]{article}
\usepackage[margin=0.5in]{geometry}
\usepackage{jsonresume}

\begin{document}
```

```
% Load resume data from a file
\resumefromfile{resume.json}

% Render the complete resume
\renderresume

\end{document}
```

Compile with:

```
lualatex --shell-escape yourfile.tex
```

5 Package Options

5.1 Strict Mode

Enable strict mode to receive warnings about schema violations:

```
\usepackage [strict]{jsonresume}
```

In strict mode, the package warns about:

- Unknown top-level sections
- Missing required fields (e.g., `basics.name`)
- Invalid date formats (should be YYYY, YYYY-MM, or YYYY-MM-DD)
- Invalid URL formats
- Type mismatches (e.g., string instead of array)

Warnings appear in the LaTeX log file.

6 Commands

6.1 Loading Data

Command	Description
<code>\resumefromfile{<path>}</code>	Load resume data from a local JSON file
<code>\resumefromurl{<url>}</code>	Load resume data from a remote URL (requires shell escape)

6.2 Rendering Sections

Command	Description
<code>\renderresume</code>	Render all available sections in standard order
<code>\renderresumecore</code>	Render core sections only (basics, work, education, skills)
<code>\resumebasics</code>	Render name, contact information, and summary

Command	Description
\resumework[<title>]	Render work experience section
\resumevolunteer[<title>]	Render volunteer experience section
\resumeeducation[<title>]	Render education section
\resumeawards[<title>]	Render awards and honors section
\resumecertificates[<title>]	Render certifications section
\resumepublications[<title>]	Render publications section
\resumeskills[<title>]	Render skills section
\resumelanguages[<title>]	Render languages section
\resumeinterests[<title>]	Render interests section
\resumereferences[<title>]	Render references section
\resumeprojects[<title>]	Render projects section

The optional `<title>` argument allows you to customize the section heading. For example, `\resumework[Professional Experience]` will use “Professional Experience” instead of the default “Experience”.

6.3 Validation Commands

Command	Description
\resumevalidate	Manually trigger validation
\resumebatchvalidate	Print validation summary to document
\resumewarningcount	Output the number of validation warnings

6.4 Data Access (Advanced)

For advanced users who want to access individual data fields:

Command	Description
\jrget{<path>}	Get a value using dot notation
\jrifexists{<path>}{{<yes>}{<no>}}	Conditional based on path existence

Example:

```
Name: \jrget{basics.name}
Email: \jrget{basics.email}

\jrifexists{basics.phone}{{Phone: \jrget{basics.phone}}{}}
```

7 JSON Resume Format

The package supports the full JSON Resume schema. Here is an abbreviated example showing the structure:

```
{
  "basics": {
    "name": "Jane Doe",
    "label": "Software Engineer",
```

```

    "email": "jane@example.com",
    "phone": "+1-555-123-4567",
    "url": "https://janedoe.dev",
    "summary": "Experienced software engineer...",
    "location": {
        "city": "San Francisco",
        "region": "CA",
        "countryCode": "US"
    },
    "profiles": [
        {
            "network": "GitHub",
            "username": "janedoe",
            "url": "https://github.com/janedoe"
        }
    ]
},
"work": [
    {
        "name": "Company Name",
        "position": "Software Engineer",
        "startDate": "2020-01",
        "endDate": "2023-12",
        "highlights": ["Built features", "Led teams"]
    }
],
"education": [...],
"skills": [...],
"projects": [...]
}

```

For the complete schema specification, see <https://jsonresume.org/schema/>.

8 Custom Layout Example

You can customize the order and titles of sections:

```

\documentclass[11pt]{article}
\usepackage[margin=0.75in]{geometry}
\usepackage[strict]{jsonresume}

\begin{document}
\resumefromfile{resume.json}

% Custom order and custom titles
\resumebasics
\resumeskills[Technical Expertise]
\resumework[Professional Experience]
\resumeprojects[Side Projects]
\resumeeducation[Academic Background]
\resumecertificates[Professional Certifications]
\resumelanguages

\end{document}

```

9 Troubleshooting

9.1 “This package requires LuaLaTeX”

The package only works with LuaLaTeX. Make sure you compile with:

```
lualatex --shell-escape yourfile.tex
```

9.2 URL Loading Fails

If loading from URLs doesn’t work:

1. Ensure you’re using the `--shell-escape` option
2. Verify that `curl` is installed and accessible
3. Check that the URL is accessible from your machine

9.3 Validation Warnings

If you see validation warnings in strict mode, check the LaTeX log file for details. Common issues include:

- Date formats should be YYYY, YYYY-MM, or YYYY-MM-DD
- URLs should include the protocol (`https://`)
- Arrays (like `highlights`) should be JSON arrays, not strings

10 License

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11 Bug Reports and Contributions

Bug reports, feature requests, and contributions are welcome at:

<https://github.com/dotWee/TeXed-JSON-Resume>