Creating a Tailored Resume in HTML/PHP/CSS

Acknowledgements

Thank you to Jason Blanchard and his wife Jackie for encouraging me to document this utility.

When I was losing my job in June 2020, someone in the Black Hills Info Sec or TrustedSec discord told me about the "IRL Job Hunt" Jason (and sometimes Jackie) conducts on Twitch twice per week. I mentioned in the stream comments that I had recently switched from using a spreadsheet to make resumes targeted to a company I was applying to in favor of a web product that makes re-ordering items and en/dis -abling line items much easier. They pushed me to document the tool.

Preamble

First and foremost, I'm not a web developer by any means. My web dev experience is primarily related to utility sites for company internal use (e.g. employee directory, IT support ticket reporting) or personal tools (e.g. personal finance ledger). This is another such tool. A proper web developer could/should tweak the CSS to wow the viewer, especially if that's the job being applied to.

In the past, I used to use a spreadsheet to make a tailored resume because the alignment stayed crisp, I could hide/show rows, duplicate a sheet to make a company specific revision, etc. However, it wasn't quick to re-order items. For example, I could hide a row to not include it, but to reprioritize an item lower or higher in a list entailed inserting row(s), moving the item(s), and deleting the null row(s). Further, I had to ensure I wasn't deleting any hidden rows I might need in the future. Exporting the PDF could be cumbersome too depending on the word processor and the export options that aren't remembered each time.

This tool is intended to make it easier to re-order and/or in/ex -clude items that may pertain to one company and not to another. Chrome web browser retains "Save as PDF" settings as well.

Working Environment

My host platform is Ubuntu Server. The web server is Apache, with PHP enabled. I configured a new VirtualHost running on HTTPS with an SSL certificate from LetsEncrypt. I have personally identifiable information in my resume, so I password protect it with the htpasswd utility. I also limit it to connections from specific IP addresses. When I'm not exporting resumes, I disable the VirtualHost with a2dissite. One could leave a resume visible and redact the PII.

My workstation is Windows 10. So that I can use a GUI text editor (Notepad++ or Sublime Text) when making many edits, I use MountainDuck SFTP with the root folder being the VirtualHost DocumentRoot folder. MountainDuck is not free. There is a trial version. To remain completely free, one could use nano via SSH, and re-order with Ctrl+K/Ctrl+U to cut and paste one or more items. Pro tip, if editing exclusively via SSH, use tmux to open multiple windows in the SSH session and bounce between the windows with BindKey+[n,p,#].

```
Modifie
 nano 2.9.3
                                                             /tmp/MyResumeWebRoot/resume.php
<!DOCTYPE html>
                                               Set your preferred bullet point
                                               This provides education
require('training
require('skills.p
                                               This provides extra training you've had
                                              This provides extra skills you'd like to advertise
This provides stuff you'd like to highlight about yourself
<html>
          <meta charset="utf-8"
<link media='screen'
<link media='print' r
<title></title>
                                     rel="stylesheet" type="text/css" href="resume_screen.css
rel="stylesheet" type="text/css" href="resume_print.css"/
</head>
<body>
<center>
Tweak the percentages to
                                                                                                                  columns,
                                                                                                      fit
fit
                                                                            the
                                                                                 percentages
                                                                                                                  columns,
                                                                    Tweak
                                                                                                           your
                                                                            the
                                                                                 percentages
                                                                                                           your
                                                                                                                  columns,
                                                                    Tweak
                                                                            the
                                                                                 percentages
                                                                                                           your
                                                                                                                  columns,
                                                                            the percentages
                                                                                                           your
          Renamed with tmu:
                     <!--- Name and contact information --->
<div class='td_name'>
                                           Johnathan Q Doe
                                </div>
                                <div class='td_contact'</pre>
```

CSS styles

The CSS files contain properties for classes and elements. There're also inline style attributes. Change these at your preference.

"index.php" file

There're comments in the PHP files where I felt necessary. The "resume.php" file ("index.php" is symlinked to it in my environment) is the primary document. The first few lines

- define the bullet point symbol (not rendered properly in the nano window in the picture above)
- require the extra PHP files that generate the job history, education history, training, skills, etc. variables

The head tag includes separate screen and print CSS documents. I prefer to use Chrome so I can tweak the margins when exporting the PDF. The screen CSS shows table row and data borders to see where fields end. The print CSS doesn't include borders.

The table header section of the table (th) defines the width of each table column. The print and screen CSS render the columns slightly differently such that a long company name may break onto a new line in the print preview or exported PDF. Proofread the document before export and sending to a potential employer.

The first row of the table has your name and extra info. The name is in a <code>div</code> that is centered in the <code>td</code>. The optional and extra contact info is in another <code>div</code> that is pinned to the right and stacked higher (<code>z-index</code> property). If you have this publicly viewable, you may not want your PII included. As I mentioned above, I don't have this publicly viewable all the time, so I leave the PII in place, export the PDFs as needed, then stop the VirtualHost.

With respect to the PII, in my resume, I have telephone embedded as

```
<a target=' blank' href='tel:+155555552160'>&#9742; 555-555-2160</a>
```

so that a person viewing on a phone can press the phone number to call me directly. Similarly, the address is embedded as a link that opens Google maps on an Android device.

The extra (SFW) social media pieces are embedded as hyperlinks where the clickable item is the site's "favicon.ico" image limited to 16x16 pixels.

After the first row is the objective field. Put what you want here.

After this section is where the require PHP statements above echo the remaining table output.

"jobs.php" and "edu.php" files

The Jobs and Education PHP files have similar formats. The \$arr_JOB and \$arr_EDU variables are each an array and contain a nested array of job descriptions or educational highlights, respectively.

```
Γ
  'Company Name',
                                              'School Name',
  'Job Title',
                                              'Campus',
  'Date Range',
                                              'Date Range',
  'Location',
                                              'Location',
                                                'Highlight #3 re-ordered',
    'Job Description #3 re-ordered',
    'Job Description #1',
                                                'Highlight #1',
    'Job Description #2',
                                                'Highlight #2',
    //'Commented Job Description #4',
                                                //'Commented Highlight #4',
    '...',
                                                '...',
    'Job Description #n',
                                                'Highlight #n',
 ]
                                             ]
]
                                           1
```

The array items are ordered by date, oldest to newest. To add a job or school, duplicate the last array item and update accordingly. After the array is created, it's reversed such that the resume is ordered newest to oldest. Change this at your preference.

In any case, job duties and highlights should

- start with action verbs (e.g. "Manage", "Create", "Decrease")
- contain quantifiable figures whenever possible (e.g. "10% year over year")
- have correct tense (e.g. "Managed", "Created", "Reduced" for a previous position)

After the array reversal, the section header is initialized with its table layout.

Regardless of how the bulleted list is written to the media, the power of this tool is illustrated by the quick ability to change the order of the duty/highlight array with

- Ctrl+Shift+↑/↓ in Notepad++ and Sublime Text with one or more lines selected
- Ctrl+K on one or more lines to cut, then Ctrl+U to paste in nano

Yank (yy), delete (dd), and paste/put (p) operations in vi(m).

and un/commenting items with

- Ctrl+k to comment Ctrl+Shift+k to uncomment in Notepad++
- Ctrl+/ to toggle comment in Sublime Text
- Meta+3 to toggle comment in nano
- I wish you the best in vi(m)

Save the PHP file when the items have been rearranged and/or un/commented.

When the foreach loops have finished, the \$sec_JOB and \$sec_EDU variables contain all the tr items for this part of the table.

"training.php", "skills.php", and "successes.php" files

These three files have the same operation as the Jobs and Education PHP files. The primary difference is that the \$arr_TRN, \$arr_SKL, and \$arr_SUC variables are single dimension arrays, *i.e.* they don't contain nested arrays.

The sole foreach loop iterates over the array and builds the \$sec_TRN, \$sec_SKL, and \$sec_SUC section variable, which contains the tr data for the respective section.

The last PHP statement in each of the required files is a commented "echo \$sec_ABC;" statement. The purpose of this is to allow one to make changes and check the output independent of the index file. One could view the source of the page https://myres.example.com/jobs.php to see the output of that individual PHP file.

Returning to the index file

Each of the \$sec ABC variables is echoed to the screen, then the table and body elements are closed.

Conclusion

As mentioned, this tool is utilitarian and creates a structured, informative, no frills resume. It should have some CSS enhancements applied to wow the viewer. Use Chrome's developer tools to test some CSS enhancements and then migrate those to the separate CSS files or the inline style attributes.