EMAIL: *me@jason.richmond.is* ~ TEXT: *574.855.6954* ~ SITE: *jason.richmond.is* ~ DATE: *2021.05.21*

* M.S. in Computer Science familiar with a diverse array of languages, platforms, and domains seeking to further expand software development capabilities in a professional setting.
* Offers five years experience crafting programs in an academic setting in addition to teaching students of all ages and aptitudes the art of programming.
* Thrives in collaborative work environments where ego takes a backseat to doing great work and solving the problem at hand.
* Dealt with clients and built solutions for small businesses in prior career.

## WEB DEVELOPMENT SKILLS

ACQUIRING:
- Full-stack Development
- Microservices
- REST
- Serverless
- Angular
- Django
- NoSQL
- React
- Redux
- Typescript

EMPLOYING:
- Front-end Web Design
- Node.js
- Docker
- p5.js
- Javascript
- HTML
- CSS
- Markdown

## DATA ENGINEERING SKILLS

ACQUIRING:
- MySQL
- Pandas
- PySpark
- Hadoop
- R

EMPLOYING:
- Machine Learning
- Neural Networks
- AI
- SQL
- Java
- Python

## ADDITIONAL KNOW-HOW

- Object-Oriented Programming
- Procedural Programming
- Functional Programming
- Unit Testing
- Gang of Four Design Patterns
- UI/UX Design
- Git
- C/C++

## WORK EXPERIENCE

### LEAD INSTRUCTOR — 2018 ~ 2020

**South Bend Code School**

* Crafted interactive learning path spanning eleven lessons of around 25k words in p5.js, giving students an introduction to class-based object-oriented programming.
* Laid a concrete foundation for primary and secondary school students to build out abstract programming concepts using Scratch, Web Dev, Unity, Javascript, and Python.
* Attended to the struggling to help them understand that coding is about embracing failure and not giving up.
* Entrusted with running the Elkhart branch and being liazon to local schools keeping the relevant stakeholders happy and extending Code School reach.

### LEARNING FACILITATOR — 2016 ~ 2019

***Academic Center For Excellence***

* Equipped dozens of graduates and undergraduates of all levels having trouble grokking the theory and practice of Computer Science with the knowledge and skills to succeed.
* Debugged hundreds of student-written programs, usually on a tight deadline before submission without reference to a working answer.
* Convinced the department to retain early Friday hours for those getting a head start on the weekend.
* Collaborated with professors to help compress the complex world of code into the tangible everyday for entry-level students.

## ACADEMIC EXPERIENCE

### MASTER OF SCIENCE ~ *Computer Science* — 2021

***Indiana University South Bend*** — GPA: 3.7

* Studied a wide spectrum in the discipline, from artificial intelligence to algorithm analysis, networking to neural networks, graphics to games, even writing the opcodes for a simulated CPU to run a puck-like robot with programmed with enough AI to navigate a maze.

### MASTER'S PROJECT ~ *Counternote Compiler*

* Implemented a compiler for an original musical language written in 7-bit ASCII, designed to be readable, typeable, singable, and shareable, with chromaticism, music theory, and rhythm built in to complement the diatonicity of traditional notation.

### BACHELOR OF ARTS ~ *Anthropology, Linguistics, Economics*

***Indiana University Bloomington***

```python
import json; from collections import namedtuple; from datetime import date as d
################################################################################################################
resume = open('../data.json'); date = d.today().strftime('%Y.%m.%d'); nl = '\n'; text = ''
dat = json.load(resume,object_hook=lambda d: namedtuple('X', d.keys())(*d.values()))
info = dat[0]; ed = dat[1]; work = dat[2]; craft = dat[3]; web = craft.skills.web; data = craft.skills.data;
dev = craft.skills.dev; cl = 31; gut = 5; cr = 75; t = 2; dent = 8; full = cl + gut + cr
# DISPLAY NAME IN LARGE ASCII FONT ############################################################################
def display(l,s=''):
  for i in range(len(l)):
    ((s := f'''{s}{l[i]*'/'}''') if i%2 else (s := f'''{s}{l[i]*' '}''')) # alternate spaces and numbers
  return s
## VALUES FOR DISPLAY FONT ####################################################################################
a = [5,5,3,3,5,4,4,4,3,3,3,2,4,6,3,2,2,5,2,2,3,2,1,3,4,3,3,4,3,3,3,2,1,5]
b = [7,2,2,2,1,2,2,2,6,2,4,2,1,4,2,2,4,2,3,2,2,2,1,2,3,2,1,2,3,2,1,4,2,4,1,2,4,2,1,4,2,2,1,2,2,2]
c = [6,2,1,2,3,2,3,3,3,2,4,2,1,2,1,5,4,6,3,2,1,2,6,7,1,2,1,4,1,2,1,2,4,2,1,2,1,5,1,2,3,2]
d = [0,2,3,2,1,7,6,2,1,2,4,2,1,2,3,3,4,2,3,2,2,2,1,2,3,2,1,2,3,2,1,2,2,2,2,2,1,2,4,2,1,2,3,3,1,2,3,2]
e = [0,5,2,2,3,2,1,6,4,4,3,2,4,2,4,2,4,2,1,2,2,5,2,2,3,2,1,2,6,2,3,4,3,2,4,2,1,6]
# CONTACT INFORMATION AND AIM ################################################################################
info_fields = f'EMAIL: {info.email} ~ TEXT: {info.phone} ~ SITE: {info.site} ~ DATE: {date}'
full_column = [nl,display(a),display(b),display(c),display(d),display(e),nl,
f'''{(full-len(info_fields)-7)*' '}{info_fields}\n\n*{(full-2)*'~'}*''',
f'''{dent*' '}* {info.text[0][:91]}\n{dent*' '}  {info.text[0][92:]}''',
f'''{dent*' '}* {info.text[1][:86]}\n{dent*' '}  {info.text[1][87:]}''',
f'''{dent*' '}* {info.text[2][:89]}\n{dent*' '}  {info.text[2][90:180]}''',
f'''{dent*' '}* {info.text[3][:91]}\n*{(full-2)*'~'}*''']
# WEB SKILLS ACQUIRING ########################################################################################
wds = web.name; w = web.acquiring; n,ac,em = web._fields
left_column = [f'''{f'{wds.upper()}'+(cl-len(f'{wds}'))*' '}{gut*' '}''',f'''*{(cl-2)*'~'}*{(gut)*' '}''',
f'''{ac.upper()}:{(cl-len(ac+':'))*' '}{gut*' '}''',f'''{t*' '}{w[0]+(cl-len(w[0])-t)*' '}{gut*' '}''',
f'''{t*' '}{w[1]+(cl-len(w[1])-t)*' '}{gut*' '}''',f'''{t*' '}{w[2]+(cl-len(w[2])-t)*' '}{gut*' '}''',
f'''{t*' '}{w[3]+(cl-len(w[3])-t)*' '}{gut*' '}''',f'''{t*' '}{w[4]+(cl-len(w[4])-t)*' '}{gut*' '}''',
f'''{t*' '}{w[5]+(cl-len(w[5])-t)*' '}{gut*' '}''',f'''{t*' '}{w[6]+(cl-len(w[6])-t)*' '}{gut*' '}''',
f'''{t*' '}{w[7]+(cl-len(w[7])-t)*' '}{gut*' '}''',f'''{t*' '}{w[8]+(cl-len(w[8])-t)*' '}{gut*' '}''',
f'''{t*' '}{w[9]+(cl-len(w[9])-t)*' '}{gut*' '}''']
# WEB SKILLS EMPLOYING ########################################################################################
w = web.employing; left_column += [f'''{em.upper()}:{(cl-len(em+':'))*' '}{gut*' '}''',
f'''{t*' '}{w[0]+(cl-len(w[0])-t)*' '}{gut*' '}''',f'''{t*' '}{w[1]+(cl-len(w[1])-t)*' '}{gut*' '}''',
f'''{t*' '}{w[2]+(cl-len(w[2])-t)*' '}{gut*' '}''',f'''{t*' '}{w[3]+(cl-len(w[3])-t)*' '}{gut*' '}''',
f'''{t*' '}{w[4]+(cl-len(w[4])-t)*' '}{gut*' '}''',f'''{t*' '}{w[5]+(cl-len(w[5])-t)*' '}{gut*' '}''',
f'''{t*' '}{w[6]+(cl-len(w[6])-t)*' '}{gut*' '}''',f'''{t*' '}{w[7]+(cl-len(w[7])-t)*' '}{gut*' '}''',
f'''*{(cl-2)*'~'}*{(gut)*' '}''']
# DATA SKILLS ACQUIRING #######################################################################################
des = data.name; d = data.acquiring
left_column += [f'''{f'{des.upper()}'+(cl-len(f'{des}'))*' '}{gut*' '}''',f'''*{(cl-2)*'~'}*{(gut)*' '}''',
f'''{ac.upper()}:{(cl-len(ac+':'))*' '}{gut*' '}''',f'''{t*' '}{d[0]+(cl-len(d[0])-t)*' '}{gut*' '}''',
f'''{t*' '}{d[1]+(cl-len(d[1])-t)*' '}{gut*' '}''',f'''{t*' '}{d[2]+(cl-len(d[2])-t)*' '}{gut*' '}''',
f'''{t*' '}{d[3]+(cl-len(d[3])-t)*' '}{gut*' '}''',f'''{t*' '}{d[4]+(cl-len(d[4])-t)*' '}{gut*' '}''']
# DATA SKILLS EMPLOYING #######################################################################################
d = data.employing; left_column += [f'''{em.upper()}:{(cl-len(em+':'))*' '}{gut*' '}''',
f'''{t*' '}{d[0]+(cl-len(d[0])-t)*' '}{gut*' '}''',f'''{t*' '}{d[1]+(cl-len(d[1])-t)*' '}{gut*' '}''',
f'''{t*' '}{d[2]+(cl-len(d[2])-t)*' '}{gut*' '}''',f'''{t*' '}{d[3]+(cl-len(d[3])-t)*' '}{gut*' '}''',
f'''{t*' '}{d[4]+(cl-len(d[4])-t)*' '}{gut*' '}''',f'''{t*' '}{d[5]+(cl-len(d[5])-t)*' '}{gut*' '}''',
f'''*{(cl-2)*'~'}*{(gut)*' '}''']
# OTHER DEV KNOW-HOW ##########################################################################################
add = dev.name; d = dev.employing
left_column += [f'''{add.upper()}{(cl-len(add))*' '}{gut*' '}''',f'''*{(cl-2)*'~'}*{(gut)*' '}''',
f'''{t*' '}{d[0]+(cl-len(d[0])-t)*' '}{gut*' '}''',f'''{t*' '}{d[1]+(cl-len(d[1])-t)*' '}{gut*' '}''',
f'''{t*' '}{d[2]+(cl-len(d[2])-t)*' '}{gut*' '}''',f'''{t*' '}{d[3]+(cl-len(d[3])-t)*' '}{gut*' '}''',
f'''{t*' '}{d[4]+(cl-len(d[4])-t)*' '}{gut*' '}''',f'''{t*' '}{d[5]+(cl-len(d[5])-t)*' '}{gut*' '}''',
f'''{t*' '}{d[6]+(cl-len(d[6])-t)*' '}{gut*' '}''',f'''{t*' '}{d[7]+(cl-len(d[7])-t)*' '}{gut*' '}''',]
# WORK EXPERIENCE #############################################################################################
wex = work.name; sbcs = work.sbcs; yrs = f'{sbcs.start} ~ {sbcs.end}'
right_column = [f'''{(cr-len(f'{wex}'))*' '}{wex.upper()}''',f'''*{(cr-2)*'~'}*''',
# SBCS ########################################################################################################
f'''{sbcs.role.upper()}{(cr-len(sbcs.role)-len(yrs))*' '}{yrs}''',f'''  {sbcs.name.title()}''',
f'''  * {sbcs.text[0][:71]}''',f'''    {sbcs.text[0][72:142]}''',f'''    {sbcs.text[0][142:]}''',
f'''  * {sbcs.text[1][:71]}''',f'''    {sbcs.text[1][72:143]}''',f'''    {sbcs.text[1][143:]}''',
f'''  * {sbcs.text[2][:71]}''',f'''    {sbcs.text[2][72:]}''',f'''  * {sbcs.text[3][:67]}''',
f'''    {sbcs.text[3][68:134]}''',f'''    {sbcs.text[3][135:]}''','',f'''*{(cr-2)*'~'}*''']
# ACE #########################################################################################################
ace = work.ace; yrs = f'{ace.start} ~ {ace.end}'
right_column += [f'''{ace.role.upper()}{(cr-len(ace.role)-len(yrs))*' '}{yrs}''',
f'''  {ace.name.title()}''',f'''  * {ace.text[0][:68]}''',f'''    {ace.text[0][69:138]}''',
f'''    {ace.text[0][139:]}''',f'''  * {ace.text[1][:70]}-''',f'''    {ace.text[1][70:]}''',
f'''  * {ace.text[2][:71]}''',f'''    {ace.text[2][72:]}''',f'''  * {ace.text[3][:71]}''',
f'''    {ace.text[3][72:]}''','',f'''*{(cr-2)*'~'}*''']
# ACADEMIC EXPERIENCE #########################################################################################
aex = ed.name; grad = ed.grad; deg = f'{grad.degree.upper()} ~ {grad.major.title()}'; g = 'gpa: '
right_column += [f'''{(cr-len(f'{aex}'))*' '}{aex.upper()}''',f'''*{(cr-2)*'~'}*''']
# GRAD ########################################################################################################
right_column += [f'''{deg}{(cr-len(deg)-len(grad.year))*' '}{grad.year}''',
f'''  {grad.school.title()}{(cr-len(grad.school)-len(g)-len(str(grad.gpa))-2)*' '}{g.upper()}{grad.gpa}''',
f'''  * {grad.text[0][:71]}''',f'''    {grad.text[0][72:137]}''',f'''    {grad.text[0][138:208]}''',
f'''    {grad.text[0][209:]}''','',f'''*{(cr-2)*'~'}*'''];  proj = ed.grad.project
# PROJECT #####################################################################################################
right_column += [f'''{proj.name.upper()} ~ {proj.title.title()}''',f'''  * {proj.text[0][:66]}''',
f'''    {proj.text[0][67:134]}-''',f'''    {proj.text[0][134:199]}-''',f'''    {proj.text[0][199:]}''','',
f'''*{(cr-2)*'~'}*''']
# UNDERGRAD ###################################################################################################
un = ed.undergrad; maj = f'''{un.major.anth.title()}, {un.major.ling.title()}, {un.major.econ.title()}'''
right_column += [f'''{un.degree.upper()} ~ {maj}''',f'''  {un.school.title()}''']
# PRINT TEXT ##################################################################################################
for line in full_column:
  text += line + '\n'
leftright = zip(left_column,right_column)
for line in leftright:
  text += line[0] + line[1] + '\n'
# WRITE TO TEXT FILE ##########################################################################################
output = open('../text-resume/current.txt', 'w'); output.write(text)
```