EMAIL: jason@richmond.is ~ TEXT: 574.855.6954 ~ SITE: jason.richmond.is ~ DATE: 2023.05.24

* Software Engineer with a Master's in Computer Science familiar with a diverse array of

languages and platforms seeking opportunity to build on seven years experience crafting applications in startup and academic settings.

DEVELOPMENT SKILLS PROFESSIONAL EXPERIENCE *-----SOFTWARE ENGINEER PROGRAMMING PARADIGMS: Aunalytics Object-oriented Programming

Procedural Programming Functional Programming

LANGUAGES: Javascript Typescript HTML/CSS

Python Moio Swift

Supercollider Counternote CSound C/C++ C# Java SOL Assembly

METHODOLOGIES:

CI/CD TDD Agile Scrum Kanban Gang of Four Design Patterns SOL TD

TOOLS: Node.js React.js Vue.js Storybook.js p5.js Okta GraphOL MongoDB PostgreSQL Git Docker Mocha Hadoop Apache Pig Exasol

Jira DOMAINS:

Alluxio

UI/UX Design Full-stack Development Microservices Machine Learning Neural Networks

* Maintained the composite of microservices and REST API comprising our data solutions platform written in Node.js using MongoDB, GraphQL, Hadoop, and Apache Pig, to name a few.

* Became subject matter expert in Formations, our in-house data portability framework.

* Contributed to initiatives to improve the robustness and fault-tolerance of our data pipeline.

* Committed features that sped up our data delivery by an order of magnitude helping us achieve our on-time delivery goal over a quarter after seldom doing so over a week.

* Took the reins on implementing two-phase procedure of data manipulation so that only valid data would be written to the destination.

* Investigated and coded a dynamic solution to a logging failure impacting our ability to audit our deliverables.

* Raised the alarm to terminate a maintenance initiative that introduced widespread and subtle bugs in our soon-to-be legacy

* Pushed for and piloted new team structure to better communicate and increase collaboration.

* Fixed features in the backend-of-the-frontend of our Vue.is webapp using Storybook.js.

* Engaged in designing our next generation platform written in Typescript using React.js.

LEAD INSTRUCTOR

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.

* Entrusted with running the Elkhart branch and being liaison to local schools keeping the relevant stakeholders happy and extending Code School reach.

*-----LEARNING FACILITATOR ~ Computer Science

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.

* 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

Indiana University South Bend

2021 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 enough AI to navigate a maze.

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```
# GENERATE TEXT RESUME FROM DATA ~~~~~~~
import json
 from collections import namedtuple
 from datetime import date as d
data = json.load(open('data.json'), object_hook=lambda d: namedtuple('X', d.keys())(*d.values()))
letters = json.load(open('ascii.json'))
info, ed, work, craft, cl, gut, cr, t, sp = data[0], data[1], data[2], data[3], 31, 5, 75, 2, ' 'text, date, full, dev = '', d.today().strftime('%Y.%m.%d'), cl + gut + cr, craft.dev deg, g = f'{ed.grad.degree.upper()} ~ {ed.grad.major.title()}', 'gpa: '
def display_name(n, letters, char, italic=True, s=''): # display name in ascii characters
   lines = []
    for line in range(len(letters[' '])):
       lines.append(''
    for ch in n.upper():
       for line in range(len(letters[ch])):
           for 1 in letters[ch][line]:
  lines[line] = f'''{lines[line]} ''' if 1 == sp else f'''{lines[line]}{char}'''
           lines[line] += sp
    for i in range(len(lines)):
       x = len(lines[i])-1
while lines[i][x] == sp: x -= 1
       s += (sp*(len(lines)-i) if italic else '') + lines[i][:x+1] + '\n'
    return s
def bullet(s, mx, dent): # generate bullet
  a, s, i = [], sp*dent+'* '+s, 0
  while len(s) > mx:
       i = mx
       while s[i] != sp: i -= 1
       a.append(s[:i])
       s = sp*dent+sp+s[i:]
    a.append(s)
   return a
def bullets(arr, mx, dent): # generate bullets
    a = []
    [a.extend(bullet(s, mx, dent)) for s in arr]
    return a
def skills(obj): # generate skills text
    a.append(f'''\{obj.title.upper()+':'+(cl-len(obj.title)+1-t)*sp\}\{gut*sp\}''')
    [a.append(f'''\{t*sp\}\{n+(cl-len(n)-t)*sp\}\{gut*sp\}''') \ for \ n \ in \ obj.names]
    a.append(cl*sp+gut*sp)
    return a
def jobs(emp, sub=False): # generate work text
   a, subject = [f'''*\{(cr-2)*'\sim'\}*'''], f'''\{emp.role.upper()\}\{'\sim'+emp.sub\ if\ sub\ else\ ''\}''' a.append(f''''\{subject\}\{(cr-len(subject)-len(yrs\ :=\ f'\{emp.start\}\sim'emp.end\}'))*sp}\{yrs\}''')
   a.extend([f''' {emp.name.title()}'''] + bullets(emp.text, 71, 2))
    return a
info_fields = f'EMAIL: {info.email} ~ TEXT: {info.phone} ~ SITE: {info.site} ~ DATE: {date}'
full_column = ['\n', display_name(info.name, letters, '/'), '']
full_column += [f'''{(full-len(info_fields)-7)*sp}{info_fields}\n\n*{(full-2)*'~'}*''']
full_column += bullets(info.text, 103, 8) +[f'''\n*{(full-2)*'~'}*''']
left_column = [f'''{craft.name.upper()}{(cl-len(craft.name))*sp}{gut*sp}''', f'''*{(cl-2)*'~'}*{(gut)*sp}''']
left_column += skills(dev.prog) + skills(dev.lang) + skills(dev.meth) + skills(dev.tool) + skills(dev.doms)
right_column = [f'''{(cr-len(f'{work.name}'))*sp}{work.name.upper()}''']
right_column += iohs(work.aun) + iohs(work.ace.True)
right_column = [f'''{(cr-len()'{work.name}'))*sp}{work.name.upper()}''']
right_column += jobs(work.aun) + jobs(work.sbcs) + jobs(work.ace, True)
right_column += ['', f'''{(cr-len(f'{ed.name}'))*sp}{ed.name.upper()}''', f'''*{(cr-2)*'~'}*''',
f''''{deg}{(cr-len(deg)-len(ed.grad.year))*sp}{ed.grad.year}''',
f'''' {ed.grad.school.title()}{(cr-len(ed.grad.school)-len(g)-len(str(ed.grad.gpa))-2)*sp}''' +
f''''{g.upper()}{ed.grad.gpa}''''] + bullets(ed.grad.text, 71, 2)
 for line in full_column: # print text
    text += line + '\n'
leftright = zip(left_column, right_column)
for line in leftright:
text += line[0] + line[1] + '\n'
text += f'''\n\n{(full//2-len('~ * ~')//2)*sp}~ * ~\n\n\n'''
open('seeking.txt', 'w').write(text)
# THE END ~~
```