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\* 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.

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| DEVELOPMENT SKILLS                                                                                                                                                                                 | PROFESSIONAL EXPERIENCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>PROGRAMMING PARADIGMS:</b><br>Object-oriented Programming<br>Procedural Programming<br>Functional Programming                                                                                   | <b>SOFTWARE ENGINEER</b><br>2021 ~ 2023<br>Aunalytics<br>* 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.<br>* Became subject matter expert in Formations, our in-house data portability framework.<br>* Contributed to initiatives to improve the robustness and fault-tolerance of our data pipeline.<br>* 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.<br>* Took the reins on implementing two-phase procedure of data manipulation so that only valid data would be written to the destination.<br>* Investigated and coded a dynamic solution to a logging failure impacting our ability to audit our deliverables.<br>* Raised the alarm to terminate a maintenance initiative that introduced widespread and subtle bugs in our soon-to-be legacy backend.<br>* Pushed for and piloted new team structure to better communicate and increase collaboration.<br>* Fixed features in the backend-of-the-frontend of our Vue.js webapp using Storybook.js.<br>* Engaged in designing our next generation platform written in Typescript using React.js. |
| <b>LANGUAGES:</b><br>Javascript<br>Typescript<br>HTML/CSS<br>Python<br>Mojo<br>Swift<br>Supercollider<br>Counternote<br>CSound<br>C/C++<br>C#<br>Java<br>SQL<br>Assembly                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>METHODOLOGIES:</b><br>CI/CD<br>TDD<br>Agile<br>Scrum<br>Kanban<br>Gang of Four Design Patterns<br>SOLID                                                                                         | <b>LEAD INSTRUCTOR</b><br>2018 ~ 2020<br>South Bend Code School<br>* Crafted interactive learning path spanning eleven lessons of around 25k words in p5.js, giving students an introduction to class-based object-oriented programming.<br>* Laid a concrete foundation for primary and secondary school students to build out abstract programming concepts using Scratch, Web Dev, Unity, Javascript, and Python.<br>* Entrusted with running the Elkhart branch and being liaison to local schools keeping the relevant stakeholders happy and extending Code School reach.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>TOOLS:</b><br>Node.js<br>React.js<br>Vue.js<br>Storybook.js<br>p5.js<br>Okta<br>GraphQL<br>MongoDB<br>PostgreSQL<br>Git<br>Docker<br>Mocha<br>Hadoop<br>Apache Pig<br>Exasol<br>Alluxio<br>Jira | <b>LEARNING FACILITATOR ~ Computer Science</b><br>2016 ~ 2019<br>Academic Center For Excellence<br>* 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.<br>* Debugged hundreds of student-written programs, usually on a tight deadline before submission without reference to a working answer.<br>* Collaborated with professors to help compress the complex world of code into the tangible everyday for entry-level students.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>DOMAINS:</b><br>UI/UX Design<br>Full-stack Development<br>Microservices<br>REST<br>Machine Learning<br>Neural Networks<br>AI                                                                    | <b>ACADEMIC EXPERIENCE</b><br><b>MASTER OF SCIENCE ~ Computer Science</b><br>2021<br>GPA: 3.7<br>Indiana University South Bend<br>* 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 l in letters[ch][line]:
                lines[line] = f'''{lines[line]} ''' if l == 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 = []
    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)*~}*'''], f'''{emp.role.upper()}{' ~ '+emp.sub if sub else ''}'''
    a.append(f'''{subject}{(cr-len(subject)-len(yrs := f'{emp.start} ~ {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 += 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 ~~~~~#

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