David Silveira

SOFTWARE ENGINEER

Profile

As a highly driven software engineer, I have thrived in challenging environments, including working as a research assistant at the prestigious Kwak Lab of the University of Massachusetts, Amherst, where I developed an R program to analyze text responses about the 2016 election. My expertise in machine learning and web development led me to my first tech job at Forum Systems, where I played a pivotal role in building a healthcare-specific ML application using Django and Reactjs. Collaborating with top executives, I architected the innovative Contract Risk Analysis feature, leveraging Transformer Embedding models, and integrated GPT models to deliver valuable legal analysis functionalities. Throughout my career, I have prioritized mentorship, helping onboard new software engineers and automating processes for improved efficiency.

Employment History

Software Engineer, Forum Systems, Boston

FEBRUARY 2022 — PRESENT

- Collaborated with top executives to design and execute a cutting-edge machine learning-driven risk analysis feature for PDF contracts
- Spearheaded a team of three developers, focusing on innovative features such as NLP-based healthcare benefit encoding and machine learning-powered product analysis
- Skillfully developed Python code for a robust Django backend and efficient training/inference engines
- Efficiently utilized Word2Vec, Transformer and GPT models for sophisticated text analysis and precise risk score computation
- Leveraged Django Rest Framework to display data in a user-friendly RESTful interface
- Crafted engaging and responsive user interfaces using JavaScript, React.js, Material-UI, and a range of visualization npm packages
- Facilitated seamless onboarding for new developers by establishing a 'dev-shortcuts' repository, featuring over 25 productivity-enhancing shell script shortcuts

Research Assistant, Kwak Laboratory, Amherst

JANUARY 2021 — JUNE 2021

- University of Massachusetts, Amherst - Research Assistant at Kwak Lab
- Crafted a custom R program to process and analyze text data from Excel sheets
- Analyzed paragraphs of respondents' reactions to different frame words about the 2016 election
- Employed various data processing techniques to extract insights from text data

Host, 99 Restaurant, Woburn

JUNE 2017 — JANUARY 2019

- Greeted and seated guests, ensuring a welcoming atmosphere at the 99 Restaurant
- Managed reservations, wait-lists, and seating arrangements efficiently

Details

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Links

Portfolio Page

Skills

Python

Django

Linux

Docker

Node.js

React

JavaScript

CSS

HTML

SQL

Git

Java

Postgres

C

Data Structures

Shell Scripting

Hobbies

Ping Pong, Cooking, Darts

- Developed excellent communication and interpersonal skills while interacting with diverse clientele
- Maintained cleanliness and organization throughout the restaurant to enhance guest experience
- Cooperated with the team to ensure smooth operations and high-quality customer service

Food Delivery Driver, Doordash

JANUARY 2019 — MAY 2021

- Delivered food orders promptly and accurately for DoorDash, ensuring customer satisfaction
- Navigated various routes using GPS technology to optimize delivery efficiency
- Demonstrated exceptional time management and organizational skills while managing multiple orders
- Maintained a high level of professionalism and courteous communication with customers, restaurants, and staff
- Ensured strict adherence to food safety and handling guidelines during transportation
- Handled customer inquiries and resolved issues promptly to maintain positive customer relationships

Education

Bachelor of Science Psychology, University of Massachusetts at Amherst

JUNE 2017 — MAY 2021

- Major in Neuroscience
- Minor in Computer Science
- Major GPA: 3.868
- Overall GPA: 3.255

Columbia Engineering Coding Boot Camp, Columbia University

SEPTEMBER 2021 — JANUARY 2022

- Completed an intensive coding bootcamp at Columbia University, focusing on full-stack web development
- Acquired in-depth knowledge of programming languages such as HTML, CSS, JavaScript, and Python
- Developed proficiency in database management using SQL and NoSQL databases
- Collaborated on team projects, implementing agile methodologies to deliver high-quality web applications
- Enhanced problem-solving skills through rigorous coursework and coding challenges
- Expanded professional network by connecting with industry experts and fellow bootcamp participants