Daphne Tang

daphnetang2002@gmail.com • 646-525-8465

https://www.linkedin.com/in/daphnetang-cs/ • https://github.com/DTang127 • NY (open to relocation)

SUMMARY

I am currently seeking full-time opportunities in the Software Engineering domain. I am a graduating CS student experienced in backend development, testing frameworks, deploying data-driven applications, data science/engineering, and machine learning, with proficiency in Python and AI/ML tools like OpenAI and Dataiku.

SKILLS

Programming: Python [Numpy, Pandas, Streamlit, Flask, Pytest, Pylint, Black, Scikit, Plotly], JSON Schema, SQL, HTML/CSS, C/C++

AI/ML Tools: OpenAI, Llama, Langchain, Langsmith, Dataiku

Cloud/Server Tools: Docker, VirtualBox, AWS EC2, AWS ECR, Terraform

Dev Tools: Visual Studio Code, GitHub, Git, Tableau, Jupyter Notebook, Google Colab, Postman, CI/CD

EDUCATION

City College of New York CUNY, BS in Computer Science   August 2020 - May 2024

Artificial Intelligence, Machine Learning, Image Processing, Database Systems, Data Structures & Algorithms, Distributed Algorithms, Operating Systems, Software Design

RELEVANT EXPERIENCE

Software Engineer Intern @ *HRHouz* (Remote)   January 2024 - April 2024

- Developed backend for HRHouz's resume PDF scanner using OpenAI LLM models and JSON Schemas
- My work was operationalized here -> https://www.hrhouz.com/resume-scanner
- Built a service using Flask & an API spec to serve resume-parser
- Created an end-to-end test framework for unit/integration testing using Pytest
- Set up continuous integration through GitHub Actions to check for linting (Pylint), testing (Pytest), formatting (Black), and dependency checks for unused packages
- Orchestrated Docker container deployment to AWS ECR and automated deployment to AWS EC2 machine

Data Science Fellow @ *CUNY Tech Prep*   July 2023 - December 2023

- Collaborated on a dynamic art generator website for an Art and Music-themed Hackathon, using HTML/CSS
- Presented to recruiters during demo night, highlighting dataset biases through impactful visualizations

PROJECTS

Employment Ready *Python, Pandas, Numpy, Streamlit, Plotly, Scikit-Learn*

https://github.com/ADA-CTP/EmploymentReady • https://employmentready.streamlit.app/

- Deployed a data-driven Streamlit application to predict applicants' employability % based on their technical skills
- Utilized machine learning techniques (Gradient Boosting, Random Forest) on a dataset of 70,000 job applicants
- Conducted feature analysis to recommend top skills for improving employability based on user input

Music Recommendation Model *Python, Scikit-Learn, Flask, Numpy, Pandas, Plotly, Spotify API*

https://github.com/DTang127/CSC448FinalProject

- Engineered a K-means clustering recommendation model with low variance filtering for music recommendation
- Integrated Spotify API to extract musical characteristics from input song links
- Built a Flask app that recommends 10 songs based on musical similarity with audio previews and album covers
- Developed 24 Plotly visualizations for dataset analysis of over 170,000 songs

EXTRACURRICULARS

Google x Basta GSWEP Mentorship Program, *Mentee*   July - September 2023

CodePath Intermediate Technical Interview Prep, *Tech Fellow*   June - August 2023

Break Through Tech AI, *ML Fellow*   June 2022 - April 2023

Accenture Work Prep, *Tech Fellow*   June 2022

Girls Who Code Summer Immersion Program, *Tech Fellow*   June - August 2019