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OBJECTIVE

Seeking a challenging Data Engineering role to leverage my expertise in advanced data management and innovative analytics solutions to drive actionable business intelligence and support data-driven decision-making.

EDUCATION

Bachelor of Science in Computer Science   *2019*
Worcester Polytechnic Institute (WPI)

WORK EXPERIENCE & PROJECTS

- **Software Engineer, Talcott Resolution, Hartford CT**   *June 2023 - Present*
  - Modularized reusable market data file processing strategies in Python Datalake project. These processes are configured through Runcofig entries in an SQL Runcofig table and scheduled via Autosys jobs.
  - Structured Oracle resources that feed data from financial instruments to Power BI and visualizations that allow the business to prioritize decision making through actuarial models & outcomes.
  - Implemented React company website with pages for the business to access Power BI reports, submit tax forms with versioning logic, and the ability to upload and download datasets.
  - Led AI and innovation research for PowerBI reporting. Presented features & proposals to the CIO, Head of Infrastructure, & executives at Talcott Resolution.
  - Completed an efficient reusable Python system to determine data discrepancies in financial data assets. Reported results to assess data providers and their limitations.

- **Stock Trading Application**   *2019 - Present*

Developed personal stock trading Python scripts that run daily in GCP, scheduled on a daily crontab schedule. This functionality includes:
  - Pulling stock recommendations and news from various sources utilizing the Python requests library.
  - Algorithmically selecting tickers to monitor for breakouts.
  - Scraping realtime market data through Requests & BeautifulSoup Python libraries for realtime monitoring.
  - Placing buy/sell orders utilizing the Python Alpaca API with Textbelt text message alerts when trades are executed.

- **Software Engineer, Optum TDP, Boston MA**   *2020 - 2023*
  - Wrote Python ETL pipelines to prepare WAV audio data for Azureml ASR model training.
  - Led team strategy for optimal ASR audio segmentation used for model training.
  - Automated Jenkins jobs to run Azure Defender vulnerability scans on all images produced by Dockerfiles in the organization. Implemented email alerting that includes remediation guides.
  - Implemented OAuth identification tracking on various resources and published analytics to analytical dashboards.

SKILLS

Software:

Autosys | Azure Cloud Infrastructure | Azure DatabrIcks (ETL) | Azure Devops | Docker | Draw.io | Figma | Flask | GCP | GitHub | Jenkins | Kubernetes | Microsoft Office | Oracle Toad | Pandas | Postman | Power BI | PyCharm | Terraform | VSCode | Zoom |

Programming Languages (years):

Python (7) | SQL (6) | Java (3) | Javascript (2) | Groovy (2) | Swagger (2) | React (2) | CSS / HTML (2) | C (2)