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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*
  - Developed end-to-end data solutions scripted in Python, integrated with DevOps pipelines, and scheduled in AutoSys, leveraging SSMS Data Lake to drive actionable analytics in Power BI.
  - Modularized reusable market data file processing strategies in Python Datalake project. These processes are configured through Runconfig entries in an SQL Runconfig 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 POC & 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 on their limitations.

- **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.

ADDITIONAL PROJECTS

- **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.

SKILLS

- **Languages:**
  Python (7 yrs), SQL (6 yrs), Java (3 yrs), JavaScript (2 yrs), Groovy (2 yrs), React (2 yrs), Swagger, HTML/CSS, C

- **Tools & Technologies:**
  Azure (DevOps, Databricks, Infrastructure) | GCP | Oracle | AutoSys | Jenkins | Docker | Kubernetes | GitHub | Power BI | Pandas | Flask | Figma | Draw.io | Postman | Toad | Terraform | VS Code | PyCharm | Zoom