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## OBJECTIVE

Find a software engineering position that allows for collaborative design and implementation of software utilizing large datasets to drive key business decisions

## EDUCATION

**Bachelor of Science in Computer Science**

December 2019

**Worcester Polytechnic Institute (WPI), GPA: 3.65/4.0**

## SKILLS

**Software:** Linux, Azure Cloud Infrastructure, Azure Databricks (ETL), Kubernetes, Docker, GitHub (collaborative development), Microsoft (Word, Excel, PowerPoint, & Teams), Postman, VSCode, Jenkins, PyCharm, Terraform, Figma, Confluence, Pandas, Flask, & Draw.io

**Programming Languages:** Python, SQL, C, C++, Java, JavaScript, React, Swagger (YAML), CSS & HTML

## WORK EXPERIENCE & PROJECTS

**Software Engineer, Optum TDP, Boston MA**

January 2020 - April 2023

- Azure Cognitive Services (ETL):
  - o Wrote scripts in Azureml to mount Azure blob storage using WAV audio data with transcriptions, restructured data, trained and tested Speech and Language models. These models transcribe patient/provider phone calls within UHG. Reported analytics to the team through Matplotlib visualizations and guided future developments to improve quality of ML transcriptions
- Jenkins & Python scripts:
  - o Autogenerate real-time SVG architectural diagrams on resources in Azure using the Azure API to pull current state, construct diagrams from scratch (using svgwrite library), then automatically publish up-to-date diagrams to the organization's MKDocs microsites for engineers to reference
  - o Docker vulnerability check pipeline, pulls and builds all the organization's project Dockerfiles on a daily schedule, pushed to an ACR for the Defender to scan for vulnerabilities. All Dockerfile owners are alerted of high vulnerability scores and remediation guidelines through a notification email
- Kubernetes Deployments and Services:
  - o Automated a Jenkins pipeline for API deployment to a Kubernetes cluster. The container runs a Flask API, which manages requests to submit WAV audio data for processing. These routes are accessible externally through a Virtual Service and gateway
  - o Tested various API requests using Postman
- User tracking and analytics:
  - o Implemented OAuth user identification to track usage of the organization's resources, logged to Kibana, and designed analytical Visualizations & Dashboards for management to reference

## **Other Experience:**

- Python, Stock Trading App, Personal Project 2023 - Python scripting to pull stock recommendations and news using the Python Requests library with HTTP get requests. Calculated various moving averages and indicators to identify breakouts, pulling real-time stock data through Yahoo yfinance library. Bought and sold stock on an Alpaca paper-trading account. Scheduled to run every stock market open using a crontab schedule on my Mac. Looking to add the script to GCP.
- Figma, UHG Boston Global Hackathon, Boston MA 2019 - First place winner in the Boston location and placed second nationally. Developed a mobile app which incentivizes youth to follow healthy behaviors and habits
- React, Software Engineer, Sitetracker, Silicon Valley CA 2018 - Developed a scheduler for construction site project managers to plan tasks and jobs for their construction site work, using a React mobile app