Introduction

~30 seconds
Major areas of expertise include full-stack development, database architecture, and machine learning. This encompasses:

- Developing enterprise and user applications using a range of web, form, and mobile frameworks.
- Designing and optimizing databases, with a focus on ETL processes and data integration workflows.
- Applying machine learning techniques to real-world problems, using:
    - neural networks
    - search algorithms
    - Large Language Models (LLMs)

Include From Job Description

- I was very happy to see that your team is creating scripts to automate tasks. This is something i have experience with doing:
    - using python, bash/zsh, docker, yaml etc.

UHS (Most Recent Experience)

~1 minute, 30 seconds

My experience at UHS

this experience was incredible and I am happy to be interviewing here.

- great team (Automation and Integration)
    - learned a lot from them (each had their own niche)
    - colleagues have a great work ethic
    - take great care in their work

During my time at UHS, I led a project to modernize the internal revenue cycle reporting platform to develop interactive PowerBI reports. These reports allowed users to easily sort and filter data across multiple parameters, enabling flexible analysis and access to historical trends over time.

This project involved reverse- engineering legacy reports and creating SQL stored procedures to automate data processing for instant access to all historical data.

Another key responsibility involved creating and debugging SSIS packages to support critical ETL processes, ensuring accurate delivery of business metrics to executives, financial analysts, and investors. Additionally, I utilized C# and the .NET framework to develop tailored client applications. Specifically, creating utility tools designed to streamline specific tasks and improve operational efficiency.
end users

PFNonwovens

~ 1 minute
At PFNonwovens, I focused on developing programs to monitor and guide the real-time startup process for medical-grade non-woven material assembly lines. These applications provided

step-by-step instructions to operators, flagged incorrect parameter settings, and were designed for future scalability and adaptability to new products. Optimization efforts centered on "golden runs" using historical sensor data analysis to maximize the production of high quality product.

(Optional) Linear Regression
Dependent Variable: Post-production analysis of material.
Independent Variables: Machinery parameters (temperature, speed, pressure, etc.).
Methodology: Collaborated with domain experts (my boss, process engineers, etc.) to select key machinery parameters to perform regression on.

Tools

~ 30 seconds
My major tools include

- Python
  - Django
  - Machine Learning Tools:
  - PyTorch
  - OpenCV
  - Numpy
  - Scikitlearn
  - Seaborn

Microsoft technologies such as:

- C#
- VBA
- .NET framework

Power Platform

- Power BI
- Power Automate

with regards to databases, i have worked with:

- SQL & SQL Server
- Azure
- MongoDB
- Developing Stored Procedures

Closing

~30 seconds

- I led a team in developing a fully autonomous robot. I delegated work to my team mates and developed the path planning algorithm the robot used.
- I also helped develop an android application to help users find cheap and nearby grocery items optimizing for cost and proximity.

Questions

- What are some tools and platforms that your team uses on a day to day basis?
- Can you elaborate a bit on what kind of tasks your team is looking to automate using scripts and what the preferred scripting language is?