



AI Development Internship Recap

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THANK YOU I SAY



GRATEFUL I AM

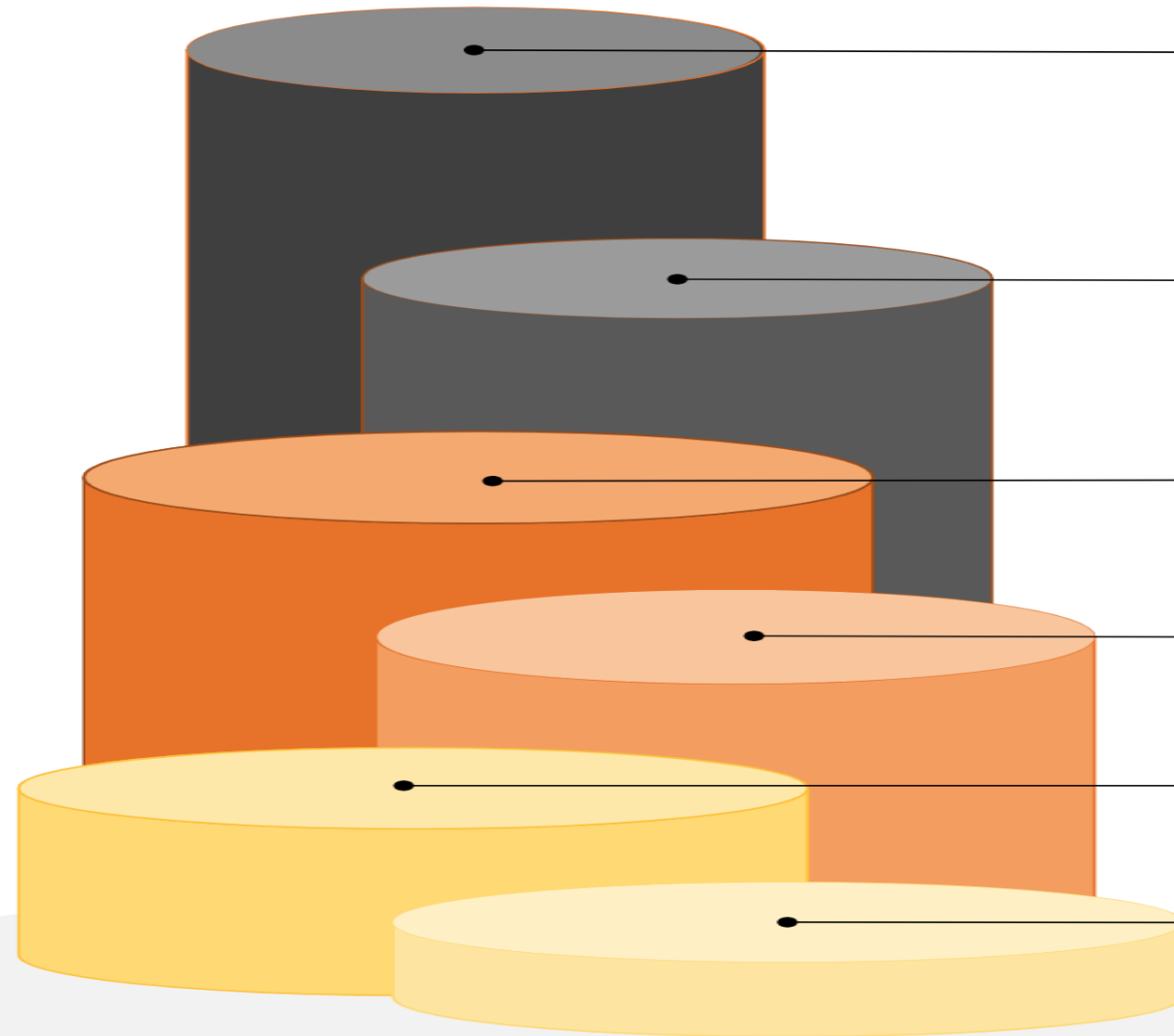
The Purpose

- SharePoint contains training instructions for learning the basics of CygNet and how to manipulate basic applications.
- We want to leverage a Large Language Model to provide training instructions to the user in a chatbot format.
- The application needs to be secure. No proprietary information can be exposed to the outside world.

Expected Challenges

- Microsoft purposefully "hides" information in SharePoint from simple web-scraping applications.
- High-performance AI models, like OpenAI's GPT-4, are NOT secure.
- Training documentation is not structured ideally for this task.

3 Month Timeline of the Project



Week 11 - 12

- Combined code to create final product
- Created slideshow
- Presented in front of the whole company 🤖

Week 9 - 10

- Perfected guide mode/SharePoint files
- Started working separately on different ideas for the bot
- Implemented saved responses and quick search

Week 7 - 8

- Midpoint review
- Perfected steps without images

Week 5 - 6

- Successfully scraped SharePoint
- Sharpened UI

Week 3 - 4

- Finished Discord bot
- Started Saga, our main project

Week 1 - 2

- Introduction to team/project
- Starter projects/intro to LLM

Before success comes growth and development



Debugging code

- Required specific config files for debugging the local host session of StreamLit
- Needed to develop better debugging practices to fix some trickier bugs



Importing libraries in Python

- Matching library versions was a challenge
- We had to reset the Python environment a few times after everything seemingly broke



GitHub

- Sharing a repository uncovered a host of challenges
- Keeping branches up to date with each other required constant communication between the interns
- Through Sam's assistance, we feel confident in our Git abilities





CygNet and SCADA

- Double checking AI responses required understanding terminology
- Hierarchy and data flow came with a learning curve
- Thanks to the ES product experts for spending time explaining Cygnet concepts

Example AI Responses

Generalized LLM Response

 How does CygNet support alarm management?

 Hi there! I'm happy to help you understand how CygNet supports alarm management.

According to the Common Alarm Service (CAS) documentation, CygNet provides centralized alarm processing for current value services (CVSs). When a CVS receives a value for a point that meets or exceeds an alarm setpoint, the CVS reports the alarm to the CAS. This means that CygNet allows you to configure alarm setpoints and alarm reporting on a per-point basis in the point configuration record.

You can use CygNet Explorer, CygNet Studio, or CygNet Vision to view alarms. Additionally, the ELSALM stores alarm history for future reference.

For more information on how to work with alarms in CygNet, I recommend checking out the Alarms topic page [1]. This will give you a comprehensive overview of alarm management within the platform.


In summary, Cygnet supports alarm management by providing centralized processing and reporting, as well as tools for viewing and storing alarms. If you have any specific questions or concerns about alarm management in CygNet, feel free to ask!


[1] <https://softwaredocs.weatherford.com/cygnets/94/Content/Topics/Alarms/Alarms.htm>

Good Response 👍

Type here

LLM Response with Context

 How can I update multiple Devices at the same time?

 I'd be happy to help you with that!

To update multiple devices at the same time, you can follow these general steps:

From your current context, I see that we've already copied a device and updated its properties. To apply this process to multiple devices, you can repeat the same steps for each device.

Here's what you can do:

1. Identify the devices that require updates. Make sure you have their DeviceIDs handy.
2. Right-click on each device and select "Copy" to open the Device record.
3. Update the properties as needed for each device. You may need to repeat the same steps multiple times, depending on the number of devices.

By following these general steps, you should be able to update multiple devices at once. If you have any specific questions or concerns about a particular step, feel free to ask!

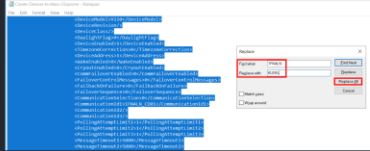
Remember to consult your broader knowledge base and relevant documents for more information on updating device properties and managing multiple devices.


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Relevant Sources

ES Training: Create Devices In Mass

Confirm Selection



 1. Download this XML file
a. This file is an example of what a multi-device XML file would look like
2. Open the file in a text-editor application of your choice
3. Replace all instances of "1FN4LN" appropriately based on the following rules
a. 1FN4LN = first letter of your first name followed by the first 4 letters of your last name
b. e.g. → Tank Dempsey = TDEMP
4. Save and Close the file
5. Double-Click "Explorer Production 5410" to open up CygNet Explorer

**Thank You For
Having Us!**

