

## Format

- 1-hour interview
- Program introduction - I'll tell you more than you want to know about our program.
- Background interview - We'll **talk about your experiences, both with work and school.**
- Project demonstration - I want you to **show off a piece of software you've written that you are proud of.**
- Extra credit - If we have time, I have some extra credit questions I want to ask you.
- Questions - You get to **ask me any questions you have about the program, working for Cargill, or anything else.**

## Background:

- Kind of rising senior in Mathematics – **Talk about WCCC**
- **Work Experience:**
  - Ameren Innovation Center
    - Data Scientist – Project Lead for 2/4 Projects
    - **Impact:**
      - Created dynamic SQL scripting processes to work on any type of data when pulling data from a data lake.
      - Load monitoring techniques
      - Utilized different forms of forecasting such as SARIMAX and ARIMA for predictive modelling
      - Implemented different team building – talk about baseball card type of things to increase team bonding.
      - Created workshops for team members in Python
  - American Supply Association
    - Business Analyst – First internship (Talk about the process to get there)
    - **Impact:**
      - Created a new guide hire and onboarding document FAQ for future interns to use (Talk about why we did this)
      - Visited various contractors and distributors to understand the industry and consumer facing relationships
      - Worked to create guidelines and suggest advice to contractors to discuss about the supply chain issues happening in 2021.
  - Illinois Risk Lab
    - Undergraduate Researcher – SOA Funded, Led 2 other people in a group
    - **Impact:**
      - Over 14,000 articles gathered using various custom designed APIs and scrapers. From arXiv, ScienceDirect, SCOPUS, etc.
      - Designed full text searching and indexing methods for corpus.
      - Created rough draft UI for the project itself, as a search engine.
      - Presented at various symposiums and talks, creating new opportunity myself. Hoping to be presenting at the National Conference for Act Sci in August.
      - Taking a new approach with search relevancy by using a keyword facing approach.
  - Illini EV Concept
    - Embedded Systems/Computer Vision Developer
    - **Impact:**
      - Designed a CAN interface to send and receive CAN packets using the MCP2515 Chip and Arduinos using C++
      - Implemented and visualized different Simultaneous Localisation and Mapping (SLAM) scenarios using rviz

## Project Demonstration

- **Constructing a NLP-Powered Repository for Cyber Risk Literature**
  - The context of the project was to address the need of not having a centralized repository for cybersecurity related academic literature. We seek out to construct one for future researchers to use and to push forward data driven discovery.
  - **Technical Aspects:** FAISS, Text Reindexing, Search Relevancy, Database Systems, Front End Design.
  - **Why I am proud:** First research experience as a freshman here. Allowed me to see how the research environment worked in college. I published weekly reports as well, teaching me consistency and time management. Also taught me how to work around members being dropped, flexibility
  - **Demo:** Streamlit app and searching, rapid prototyping. Designed it as a developer centric mindset, modular.

## Questions

- What qualities do you see in successful interns, how is “success” in your own words
- What does the hiring timeline look like for this position
- What are some challenges you have met in your position.
- Opportunities for leadership, growth in a position like this.
- Your story and how you got into this position