



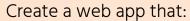
Who Are We?



- 3 senior Computer Science undergraduate students at Oregon State University
 - Lydia Brynmoor Team Leader
 - Zac Lee Backend Developer
 - Luke Penner Writer/Developer
- Working with:
 - Heidi Schellman
 - Steven Timm



Project Goals



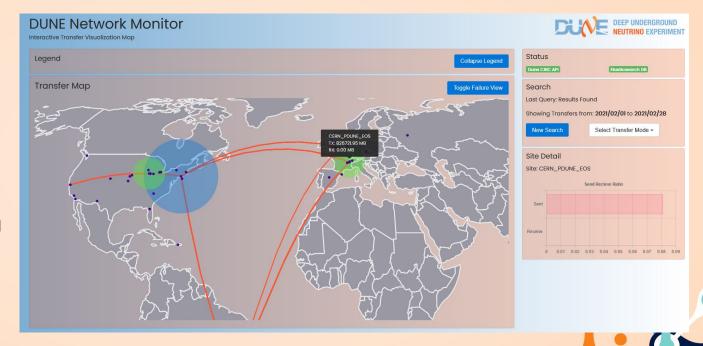
- Allows users to visualize data transfers between facilities working on the DUNE project in order to:
 - a. Understand which facilities may be having problems
 - b. See which facilities are performing many transfers
- 2. Allows users to compare transfers over different time frames
- 3. Is able to handle a high volume of transfers
- 1. Uses technology that will last many years into the future





- Purple dots are sites involved in the project
- Blue circles for transfers received
- Green circles for transfers sent
- Red lines represent transfers between sites
- Examine different time periods using the search card in the sidebar
- Site detail displays the percentage of data sent or received by the site compared to the rest of the sites over the period

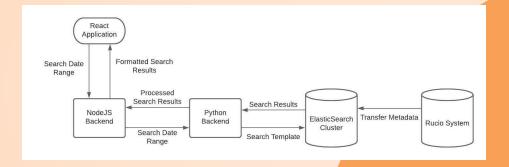
Our Project





Technologies Used





- React
 - Frontend application
- NodeJS
 - Server backend
- Python
 - Primary backend language
- ElasticSearch
 - Organizes search results for us to query
- Rucio
 - Transfer system and source of data



Planned Improvements



Network Test

The ability to display network test results on our web app

Failure Mode

We implement failure detection that displays failures by site rather than successful transfers



