

# Management and Enhancement of GCP's ExploreIT.info



Ted Chait  
Cleveland State University

Choose **Ohio** First

## INTRODUCTION

Job searching has always been one of the most difficult and crucial parts of most American's lives, especially after graduation. The currently existing ExploreIT.info website works to show job seekers local tech positions from a keyword search. However, improvements are needed to provide a better and more secure environment for users to score the job they want.

## OBJECTIVES

Our objectives include multiple design additions and modifications to the current ExploreIT search engine, including the following:

- Modifying the career search page to list all current IT openings in the Greater Cleveland area and adding advanced post-search filtering for the user to fine-tune their search
- Adding a live/automated chat bot
- Making the Admin console more user-friendly
- Updating security vulnerabilities

## METHODS

- We used SerpApi, A google search tool, to provide customizable/filterable job searches
- We used the service Kommunicate to set up our chatbot (\$40/month)
- We used Microsoft Analytics and a cleaner interface design to revamp the Administrator Console
- We updated multiple aspects of the project and added security headers to clear up vulnerabilities



Figure 1. Previous Career Page

## RESULTS

- Cleaner, more usable and customizable career page
- Chatbot ready to go; currently waiting for sponsor approval
- Security up to date
- Admin console is user-friendly with additional functionality

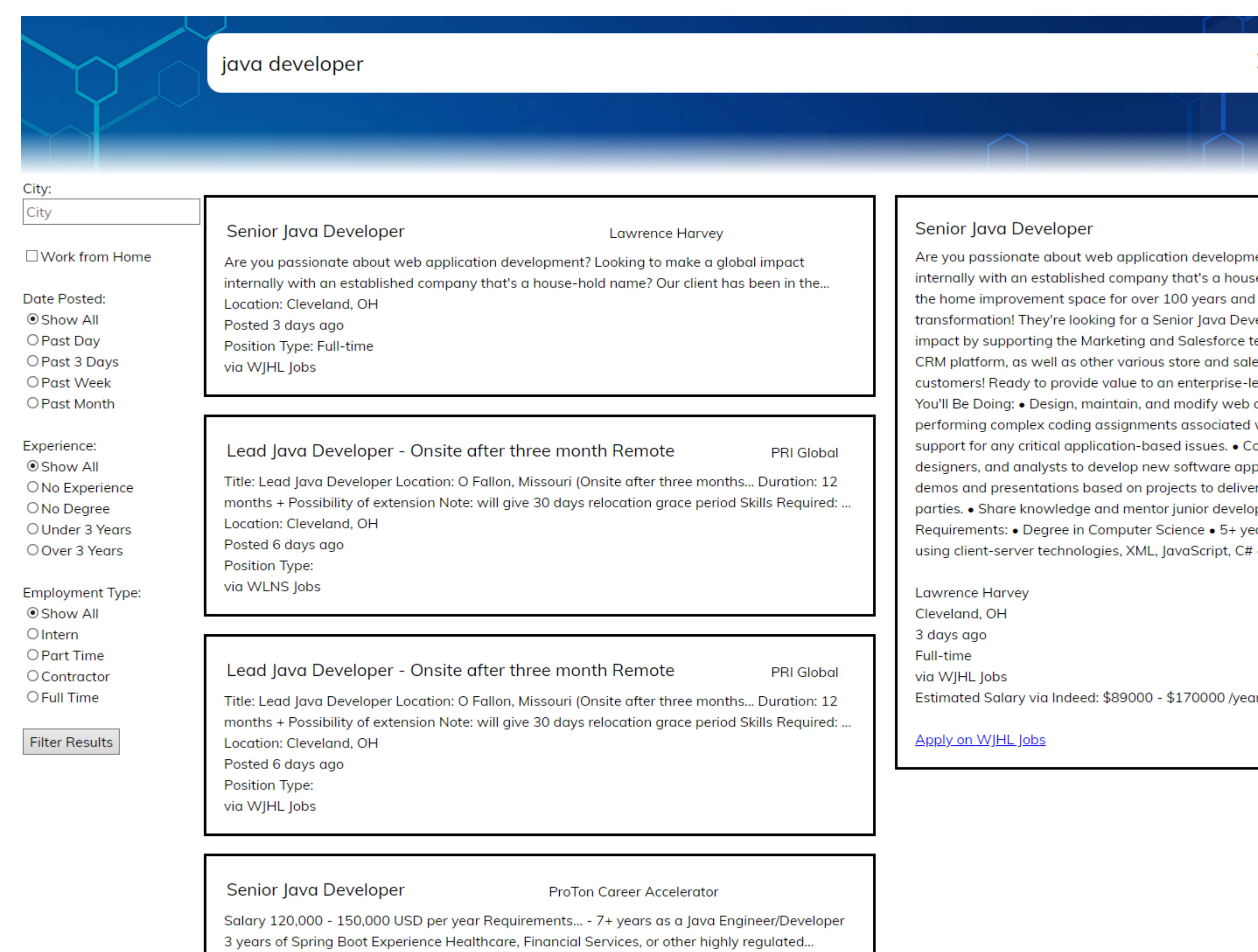


Figure 2. New Career Page

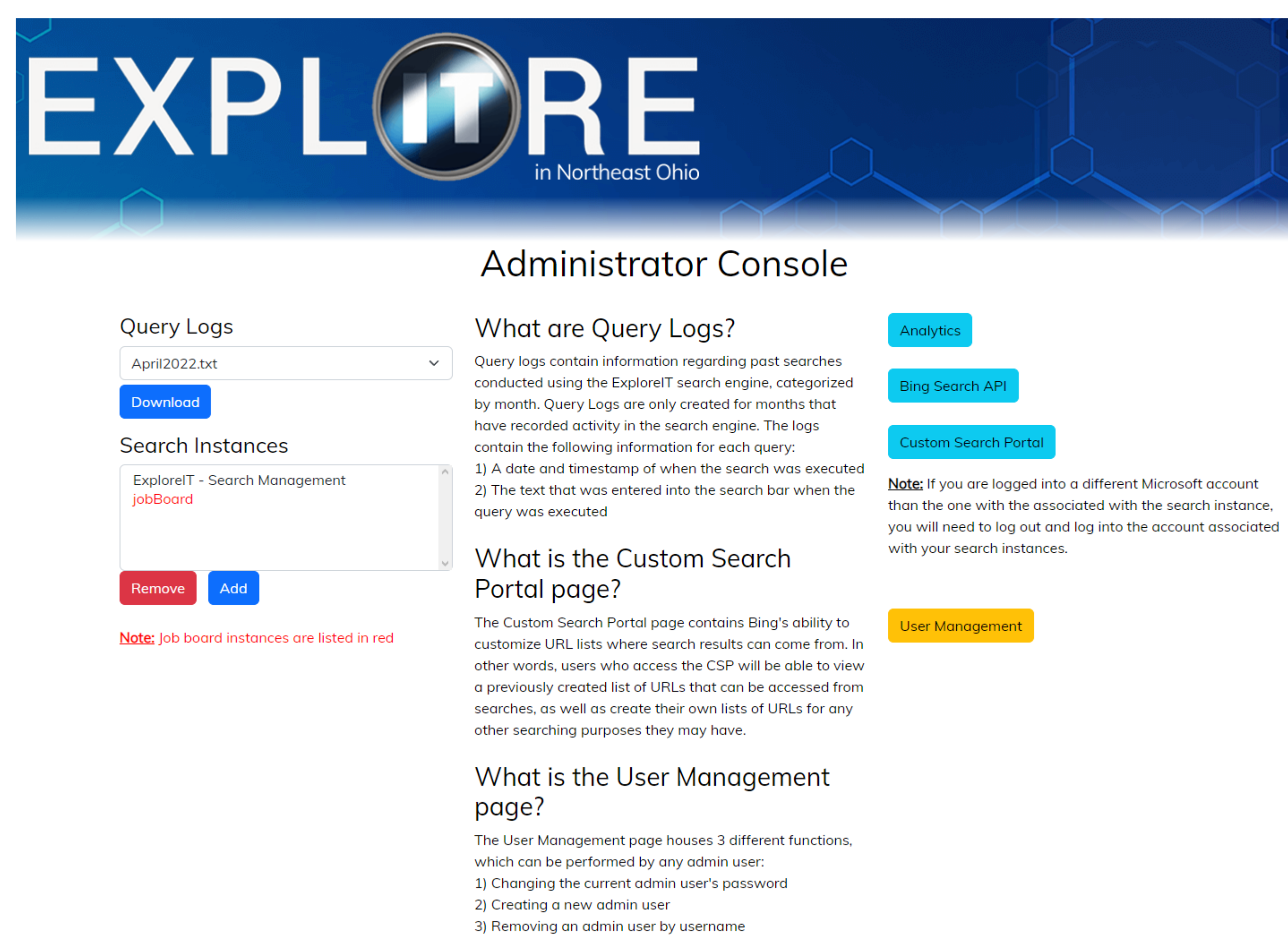


Figure 3. New Administrator Console

## CONCLUSIONS

Through our journey with ExploreIT, we have learned the essentials of what it takes to maintain and upgrade a website. Almost like a developer-client relationship, we worked together with our sponsor to continuously improve upon the service and make sure their needs were met.

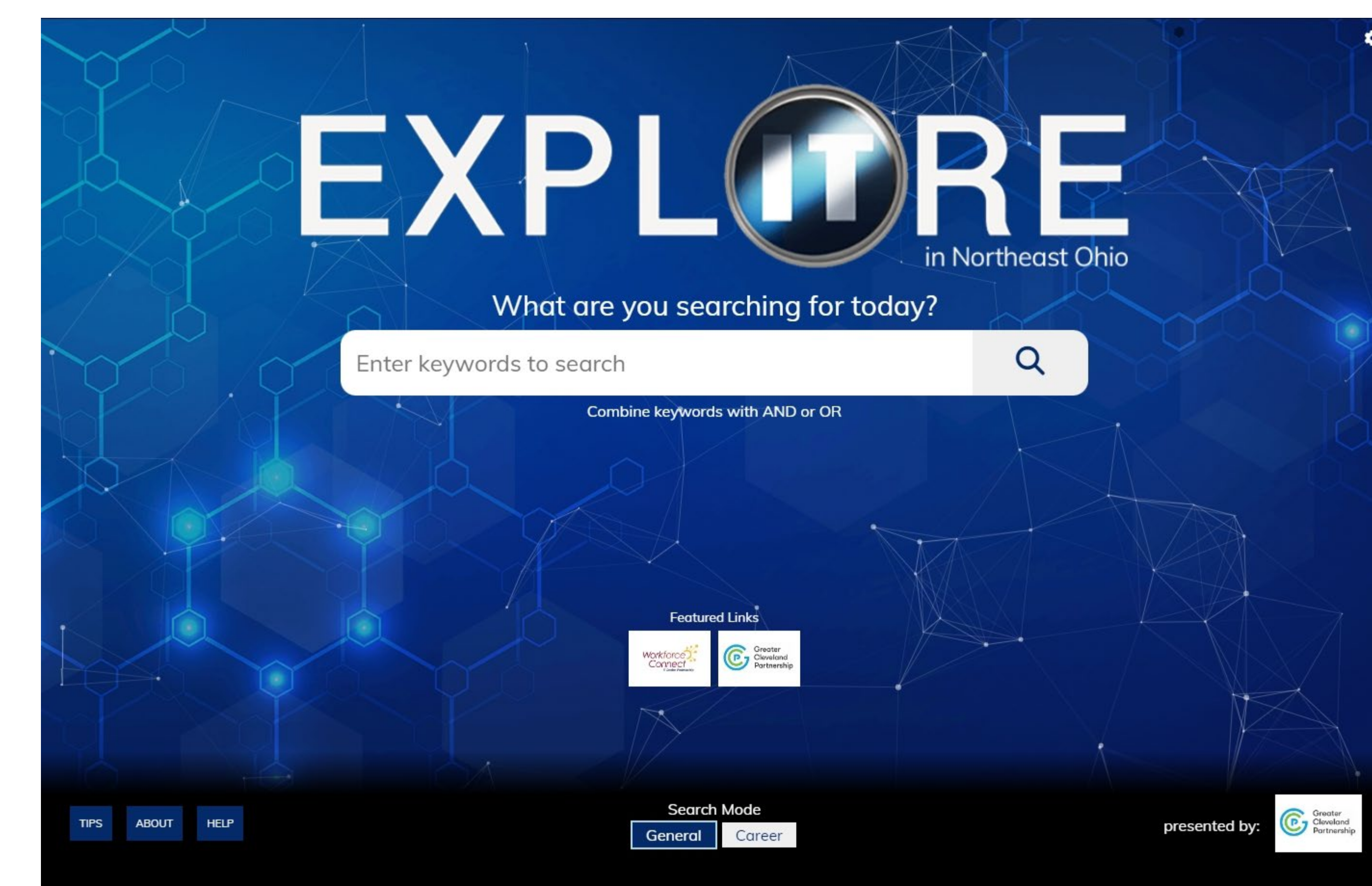


Figure 4. ExploreIT.info Landing Page

## FUTURE WORK

In the fall, this project will be passed on to a new group of seniors. Some ideas we would like to see them implement are as follows:

- Custom, distinguishable styling on the career page
- Integrate GCP jobs to show first in related career searches
- Embedded analytics

## References

- 2023, SerpApi. *Google Jobs API - SerpApi*. SERP API. Retrieved March 6, 2023, from [serpapi.com/google-jobs-api](https://serpapi.com/google-jobs-api)
- B. Green and S. Seshadri, *AngularJS*. Sebastopol, CA: O'Reilly Media, Inc., 2013.

## Acknowledgments

We would like to thank our industry sponsors, Doug Arthur and Tom Miller. We would also like to thank our faculty sponsor, Dr. Yongjian Fu.