

Title: Milwaukee CS Job Search Engine: A Localized Platform for Computer Science Job Seekers

Description: This application will be used to help job seekers find relevant job opportunities based on the users' skills. It will display a user-friendly interface for searching for jobs and managing user profiles. Administrators will have the ability to manage the users of this app and see useful statistics. Location will not be one of the preferences of the users. The database will hold a large amount of job listings from within the city of Milwaukee, focusing exclusively on computer science-related positions

User Stories:

User (Job Seeker):

1. As a job seeker, I want to register an account and build my own personalized profile. This profile will include my personal skills. This will enable me to obtain access to the application's features.
2. As a job seeker, I would like to search for jobs. This will help me find the jobs I am looking for.
3. As a job seeker, I want personalized job recommendations. These recommendations should be tailored to my skills, experiences, and a variety of other preferences.
4. As a job seeker, when I find a job, I am interested in, I would like to view more details on that job. These details should include company information and job requirements, so I am able to assess whether this job is a good fit for me.
5. As a job seeker, saving jobs is something that is important to me. I would like to save the jobs I am currently interested in so I can access them with ease in the future.

Administrator

1. As an administrator of this application, I want to view who is using my application.
2. As an administrator of this application, I want to not only view, but also manage job listings. I want to make sure that these job listings are accurate and of high quality.

Third-Party API: Adzuna API

Adzuna API will be used to obtain a variety of jobs using Adzuna's GET endpoint for searching for jobs. This endpoint has query parameter filters such as where, distance, max_days_old, and results_per_page that will make obtaining the data much simpler. A sample GET to the /jobs endpoint will receive data such as the predicted max and min salary and a description. The front end will be able to hit endpoints on the server to filter through and obtain specific data from the database. Some example endpoints include "/api/v1/search" which would handle job search requests based on query parameters such as keywords and "/api/v1/details" which would be for fetching specific job details based on the jobs ID.

Technologies

For this project I plan to make use of MongoDB, Express, Angular, and NodeJS to build this web application.