Job Search Engine

MIDTERM PROJECT REPORT

Chris Pappelis cfp4@hood.edu

Matthew Smith mps3@hood.edu

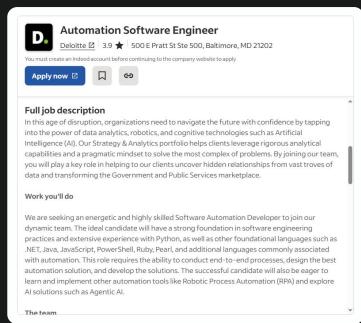
github.com/msmithp/ job-search-engine

Project Overview

- What is the Job Search Engine?
- Objectives:
 - 1. Streamline CS job searching
 - 2. Present in-demand CS skills

Previous Work & Project Plan

- Other systems
- Problems with job searching
 - Amount of information
 - Inaccurate filtering
- Our plan



Technical Description

- Main features
 - Job search
 - Skill search
 - Dashboard
- Languages used
 - Python
 - TypeScript

Tech stack:

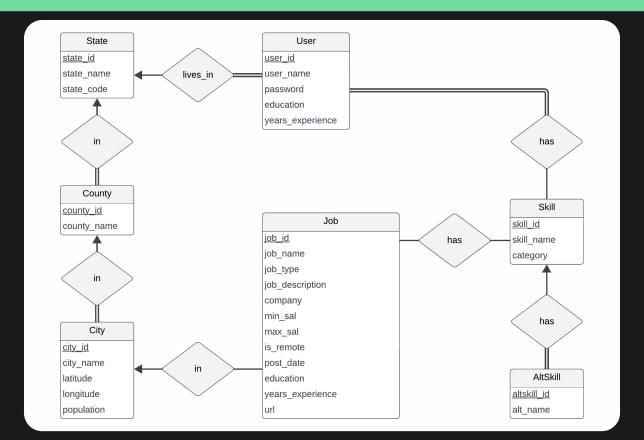
Node.js

React

Django

PostgreSQL

Technical Description



Accomplishments

1,265 lines of code

4,000 scraped jobs

9 database tables

Major features

- Web scraper
- Database implementation
- Skill and requirement extraction
- Skill chart visualization
- Job search functionality
- Compatibility calculation
- Quality of work
- Size

Project Status

Search jobs



Data Scientist, Mid

Booz Allen Hamilton

Your compatibility: 61/100

Fort Meade, MD

Salary: \$75,600 - \$172,000

7 years of experience necessary

Education requirement: Bachelor's degree

Prerequisite skills: Python, SQL

Description:

Data Scientist, Mid**The Opportunity:**

Do you want to work at the forefront of advanced technology and solve complex data challenges? You know that data yields pivotal insights when it's gathered from disparate sources and organized. As a data scientist, you'll have the chance to develop and deploy the pipelines and platforms that make this data meaningful. What's more, you'll have the chance to grow MIOps and DataOps capabilities while working with a multi-disciplinary team of analysts, data...

Show more

Team Effort

- Team operation
- Waterfall methodology
- Tools used

Team Member	Role	Hours of Work
Chris Pappelis	Back-end Lead	35
Matthew Smith	Front-end Lead	53

Lessons Learned

- Interface planning
- Dependency management
- Type safety

Expected Future Work

Activity	Implementation	Expected Due Date
Skill map visualization	Leaflet, GeoJSON	March 27
Account system	React, Django	April 8
Dashboard	Use pre-existing functionality	April 17
UI refinement	HTML, CSS styling	May 1

Demo

Questions?

Presentation files can be found at github.com/msmithp/job-search-engine/tree/main/documentation/midterm_presentation.