

JOB SEARCH ENGINE

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Abstract

Finding a job in the computer science field is a challenging task for both new graduates and industry veterans. It is made even more difficult by the overwhelming amount of information necessary to parse in order to find relevant jobs and decide whether to apply for them. The Job Search Engine application remedies this by scraping job postings from the web; extracting meaningful information about experience, education, and skill requirements from each job's description; and presenting this information to a job-searching user in a concise, readable format. When searching for jobs, the user is shown postings for jobs with which they are most compatible via a score that is calculated by comparing the user's provided years of experience, education, and skills with those required by a given job. The application also provides visualizations that display which skills are most in-demand by employers in a chosen region, granting insight to users looking to bolster their résumés. By leveraging intelligent data extraction to present tailored job recommendations and regional trends, the Job Search Engine application provides a streamlined approach to navigating the computer science job market.

Tech stack: Python, TypeScript, PostgreSQL, Django, React

Project Advisor(s): Prof. G. Dimitoglou