Grad Job Search Engine

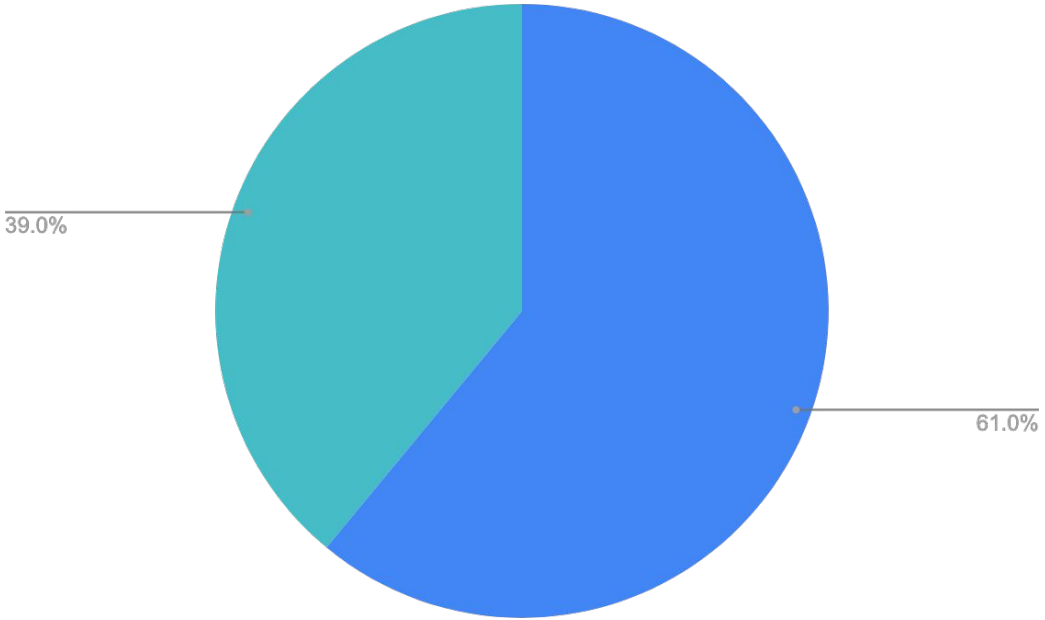
Maggie Long

Project Description

- Creating a specialized platform tailored for recent college graduates
- Focus on authentic entry-level opportunities suitable for a new workforce entrant

Problem

Mismatch in job market: 'Entry-level' often requires years of experience

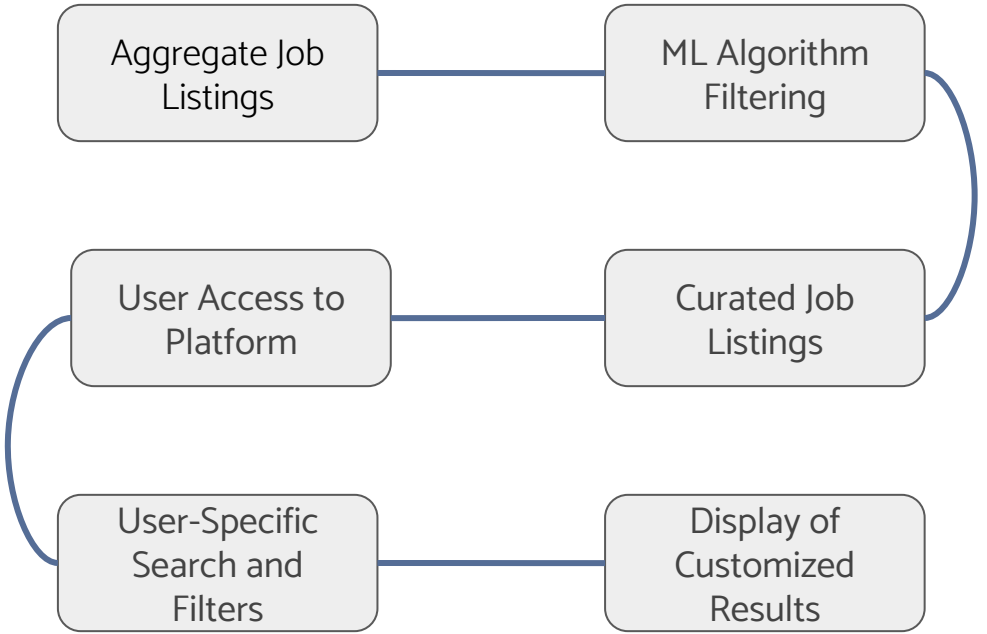


61% of 'entry-level' jobs require 3+ years of experience (TalentWorks)

Proposed Solution

A platform that filters job listings to only include those truly suitable for recent college graduates (0-3 years of experience).

Flowchart of the filtering process



Scope and Research Questions

- Audience: Recent and soon-to-be college graduates.
- Source Material: Diverse job listings via open-source APIs.
- Limitations: Data variation, dependency on external sources.
- Ethical Considerations: Data privacy, unbiased representation.
- Primary Research Questions: How to optimize ML for job categorization? What defines a 'true' entry-level job?
- Key Questions:
  - Optimizing ML for accurate job categorization.
  - Defining true entry-level job characteristics.
  - Enhancing user experience for graduates.
  - Integrating ML and NLP for experience-based filtering.

Deliverables

- Job Search Engine: Customized for graduates.
- Listing Aggregation: Updated, relevant job data.
- User System: Secure, intuitive registration and login.
- Filtering Mechanism: Using NLP for precision.
- Tech Collaboration: Development with GitLab.
- Cloud Hosting: Reliable, scalable platform.
- UI/UX Design: Professional, user-centered interface.
- Outreach: Effective marketing strategy.
- User-Centric Features: Personalized searches and filter

Project Elements

- Integration of advanced technology for robust backend development.
- Utilization of machine learning algorithms for accurate job listing filtering.
- Implementation of user-friendly design principles for an engaging front-end experience.

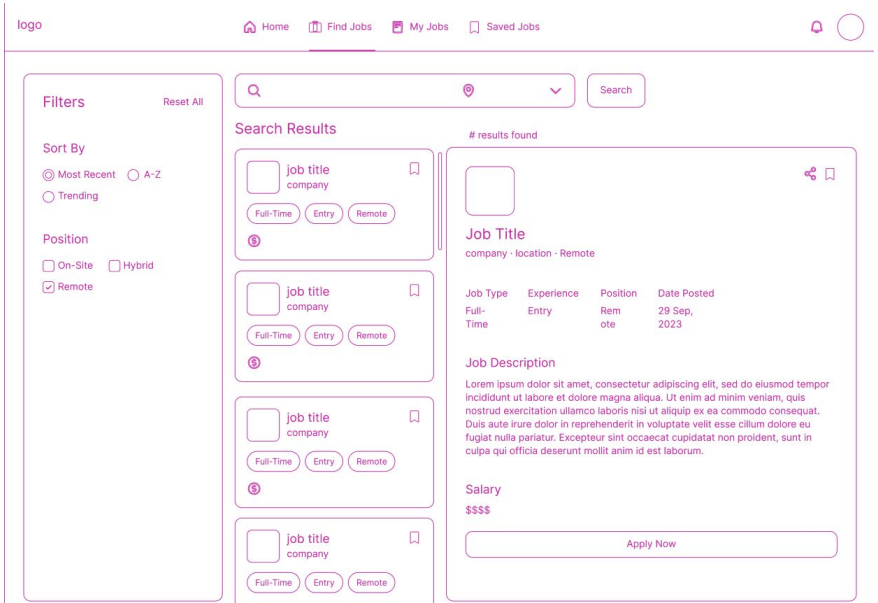
Tech

- Back-end built with Ruby on Rails, ensuring scalability and flexibility.
- Usage of PostgreSQL for efficient data management and storage.
- Exploration of cloud hosting solutions like Google Cloud or Azure for reliability.

Design

- Development of an intuitive and clean UI/UX design, focusing on user accessibility and ease of navigation.
- Application of design tools like Figma for creating interactive design prototypes.
- Consideration of user feedback for iterative design improvements.

Lo-fi mockup:



Challenges

- Overcoming the challenges in data normalization from varied job listing sources.
- Ensuring the accuracy and efficiency of the ML algorithm in real-time job filtering.
- Balancing between comprehensive functionality and maintaining a user-friendly interface.

Conclusion

- In conclusion, the 'Graduate Job Search Engine' represents a significant advancement in assisting recent graduates in their job search journey. It addresses key challenges in the job market and leverages technology to create meaningful solutions

Questions?