

Intern-Master

Considered your internship application done :)

Team 17 - CS 30700: Project Backlog

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Problem Statement

People who are actively looking for jobs have undoubtedly suffered the poorly designed repetitive experience for applying to different companies. I genuinely believe that prospective interns and job candidates should not need to go through this complicated and repetitive cycle. There is a need for automated service to apply for internships. Because the internship applications forms are highly repetitive: each company has its unique application system, and the candidates must use that specific system to apply for a position. Most of the things on these forms are the same: first name, last name, school, graduation date, skills, projects, experiences, ethnicity, disabilities, gender, etc. Although sometimes the auto-completion in Google Chrome or Apple Safari will do some of the magic for you, the result is so minimal and ineffective. Many students find themselves copying and pasting when filling these forms. We think that an automated system with a smart 'brain' that would find and apply to intern positions would save students from physical labor, mental stress, and invaluable time.

Background Information

Problem

Everyone goes through the process of applying various companies. Nobody likes this long and repetitive process one has to do with each company. Intern Master has the solution to reduce your time and repetitive cycles taken for each application. We want to develop a program that automatically completes your job application form for you at a click of a button. This will significantly reduce the amount of time that you have to spend on achieving applications and increase your time doing other meaningful tasks like reading up on the latest algorithms for your interview. Additionally, it can take a long time to find the job with the "right fit," so Intern Master will automatically recommend job positions that are relevant to your skill set and previous applications.

Domain

The domain of this software product is job applications. The product that will eventually deliver to the user will be a web app featuring chrome extension.

Targeted Users

As an applicant, they should focus on solidating their skills and building exciting projects instead of wasting time filling application for each company. So we aim to develop an application platform featuring smart auto form filling that will speed up their job application process.

We aim to provide our first iteration of the product to serve the minimal users who are tech people who are looking for internships & full-time jobs in the tech industry. Then we may broaden our target user base.

Similar products/ potential competitors and their limitations

Leap.ai

They are also an AI-powered tech job matching platform. However, the downside of their product is that they are only covering the limited amount of companies that are in cooperation with them. How our product could solve the issue of company sources is we will use the crawler to get the different pattern of different company's application website and use machine learning algorithm to mimic the human-automation behavior.

Intern.supply

This just gives a list of jobs, but they do not provide any interactive services. Instead, we would not only like to give proper relevant jobs for the student but also automatically apply for the job with one click for them.

Functional Requirements

- 1. As a prospective job applicant, I would like to add my skills so that I can have jobs automatically matched for me so that job opportunities can come find me instead of me trying to find job opportunities.**
- 2. As a developer, I would like to create the ability to automatically import a prospective job applicant's skills by using their LinkedIn account information so that prospective job applicants can have a smoother experience using the Intern Master platform.**
- 3. As a prospective job applicant, I would like the ability to use "Sign-in with Google" to make the setting up my account with Intern Master a breeze.**
- 4. As a prospective job applicant, I would like to automatically apply to a job in one click so that I do not have to go through the same repetitive text and drop down boxes for each job I want to apply to.**
- 5. As a prospective job applicant, I would like the ability to login to the website so that I can have all of my important information stored for me which would allow there to be the one click apply feature.**
- 6. As a prospective job applicant, I would like to polish my skills with the best recommendation so that I could have a best match to the target company.**

7. As a prospective job applicant, I would like would like the ability to be notified by email or text message when a new relevant job is posted that where the job requirements match my skills.
8. As a prospective job applicant, I would like to browse other similar jobs so that I can apply to more relevant jobs quicker.
9. As a prospective job applicant, I would like to the ability to easily navigate the job suggestion website so that applying to more jobs will be a breeze with good UI.
10. As a prospective job applicant, I would like the ability to share my job profile which will feature a downloadable resume, skills tab, work experience tab, and links to external websites (like LinkedIn, GitHub, etc).
11. As a prospective job applicant, I would like the ability to manually edit my public facing profile so that I can change any errors in the automatically generated profile.
12. As a prospective job applicant, I would like to ability to find online education sources to help me polish my skills so that my application looks better to interviewers.
- 13. As a prospective job applicant, I would like to be suggested which online education sources I should take in order to meet the requirements of job X.**
14. As a prospective job applicant, I would like the ability to see what date the job was published so that I can know how recently it was posted, and if I am one of the first applicants.
- 15. As a prospective job applicant, I would like to read success stories of other people who used Intern Master on the Intern Master blog so that I can be encouraged to strive for my goal of getting that job.**
16. As a prospective job applicant, I would like the ability to comment on an Intern Master blog to express my feelings or congratulate somebody else on their job success story.
17. As a prospective job applicant, I would like the ability to see what date the blog on the Intern Master blog was published so that I can know how recently that particular person had a successful job acceptance.
18. As an organization, Intern Master, would love to host guests who work in industry on the Intern Master blog to write an article so that our prospective job applicants can have awesome content to read.
19. As a developer, I would love to create an Intern Master forum (using the same login account information) can ask and answer questions for each other.
20. As an organization, Intern Master, would love to create a community of passionate people to interact on the Intern Master forums.
21. As a organization, Intern Master, would love to have a group of volunteering professionals in industry to monitor the Intern Master forums.
- 22. As a prospective job applicant, I would like to see awesome relevant open source project suggestions that I should consider working on so that I can boost my job application and resume.**
- 23. As a developer, I would like Intern Master to automatically suggest awesome open source projects to work on (in the same way that it automatically suggests relevant jobs to apply to).**

24. As a developer, I would like to create an about page about Intern Master was created and the amazing developers behind it.
25. As a developer, I would like to show our personal profiles so that we could be found easier and can acquire our next interviews and jobs easier.
26. As a prospective job applicant, I would like the ability to have a toggle button on the website to a night mode (because we all know that you probably are burning the midnight oil, and a darker color screen will be better for your long term health).
27. As a prospective job applicant, I would like the ability to share awesome jobs that I applied to on Facebook, Twitter, etc. so that I can use my energy on social media while "Intern-Master" does all the hard work of job applying in the background.
28. As a developer, I would like to add a subscription based service called "Intern Master Pro" for only \$19.99 per month which allows prospective job applicants to apply to all jobs that are relevant to them without ever having to do anything. (If time allows)
29. As a developer, I would like to give "Intern Master Pro" subscribers access to the beta software (the next big things). (If time allows)
30. As a developer, I would like to put Amazon affiliate links on our website to the best books, computer gadgets, and things to help prospective job applicants study for their next interview, and so that Intern Master can gain a little bit of profit for their services.
31. As a prospective job applicant, I would like the ability to gain "App-Points" by referring other prospective job applicants to apply to jobs through "Intern-Master." (If time allows)
32. As a prospective job applicant, I would like the ability to get early access to special jobs by redeeming "App-Points". (If time allows)

*** **BOLD** indicated the core features of our app.

Non-Functional Requirements

Architecture & Infrastructure

Backends will be Python based using Django and Flask framework to design a restful API.

React/AngularJs based front end web app allowing users to filling their information, manage detailed information, skills development suggestions and search for matching positions.

BaaS such as Firebase/Parse to store user information.

Chrome extension to help frontend web app to apply the dom manipulation.

We will use docker container heavily to ease the deployment process.

We will use travis.ci to automate the build and for our source code.

Security

Security is essential for Intern-Master, the Intern-Master's database will contain users' crucial personal information such as their first name, last name, school, graduation date, skills, projects, experiences, ethnicity, disabilities, gender, etc. Although the third party BaaS will take care of the security issues for us by using token authentication and other methods, we still looking forward to implementing our services with https to ensure the best-secured service.

Usability

The interface should be easy to navigate and simple enough for the average user to understand. The Intern-Master works on any types of internship application formats and accessible on all the platforms such as Mac, Windows, Android, or IOS.

Hosting & Deploying

One single server is enough for the starter phase. We will use Google Cloud/AWS to host frontend + backend at the same time. We will heavily use container services like docker to ease the hosting and deploying headache. :)