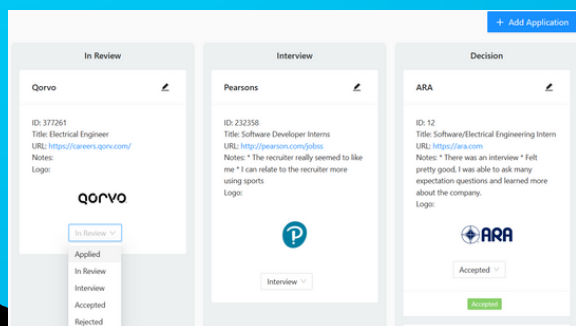**Repo**

Demo

CHECK OUT OUR PROJECT!

JOBTRACKR
STAY AHEAD OF THE GAME

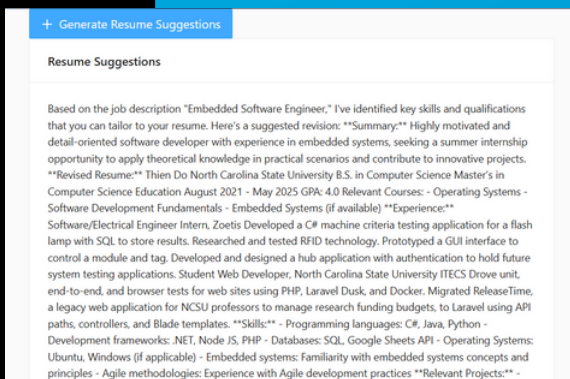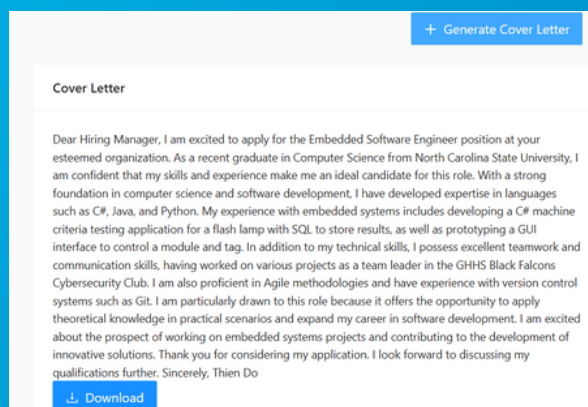**TEAM 20**
Thien Do, Nathan Lorenc, & Jake McDavitt

Our Project

Overwhelmed staying organized when applying to jobs and internships? Work on JobTrackr to both use this solution and gain experience upgrading software to the age of prompt engineering in the process!

In Review

Qorvo

ID: 377261
Title: Electrical Engineer
URL: https://careers.qorv.com/
Notes:
Logo:

In Review
- Applied
- In Review
- Interview
- Accepted
- Rejected

Interview

Pearsons

ID: 232358
Title: Software Developer Interns
URL: http://pearson.com/jobs
Notes: * The recruiter really seemed to like me * I can relate to the recruiter more using sports
Logo:

Interview

Decision

ARA

ID: 12
Title: Software/Electrical Engineering Intern
URL: https://ara.com
Notes: * There was an interview * Felt pretty good. I was able to ask many expectation questions and learned more about the company.
Logo:

Accepted

Accepted

+ Add Application

Benefits of our Software

- Being able to keep track of commonly asked questions speeds up filling out applications
- Resume Storage: Can store various types of resumes in a easy to access online service
- Allows users to see job application statuses in a familiar Kanban format
- Keeps track of jobs you want to apply for
- Provides Resume Suggestions
- Generates Cover Letters

Cover Letter

+ Generate Cover Letter

Dear Hiring Manager, I am excited to apply for the Embedded Software Engineer position at your esteemed organization. As a recent graduate in Computer Science from North Carolina State University, I am confident that my skills and experience make me an ideal candidate for this role. With a strong foundation in computer science and software development, I have developed expertise in languages such as C#, Java, and Python. My experience with embedded systems includes developing a C# machine criteria testing application for a flash lamp with SQL to store results, as well as prototyping a GUI interface to control a module and tag. In addition to my technical skills, I possess excellent teamwork and communication skills, having worked on various projects as a team leader in the GHHS Black Falcons Cybersecurity Club. I am also proficient in Agile methodologies and have experience with version control systems such as Git. I am particularly drawn to this role because it offers the opportunity to apply theoretical knowledge in practical scenarios and expand my career in software development. I am excited about the prospect of working on embedded systems projects and contributing to the development of innovative solutions. Thank you for considering my application. I look forward to discussing my qualifications further. Sincerely, Thien Do

↓ Download

Resume Suggestions

+ Generate Resume Suggestions

Based on the job description "Embedded Software Engineer," I've identified key skills and qualifications that you can tailor to your resume. Here's a suggested revision: **Summary:** Highly motivated and detail-oriented software developer with experience in embedded systems, seeking a summer internship opportunity to apply theoretical knowledge in practical scenarios and contribute to innovative projects. **Revised Resume:** Thien Do North Carolina State University B.S. in Computer Science Master's in Computer Science Education August 2021 - May 2025 GPA: 4.0 Relevant Courses: - Operating Systems - Software Development Fundamentals - Embedded Systems (if available) **Experience:** Software/Electrical Engineer Intern, Zoetis Developed a C# machine criteria testing application for a flash lamp with SQL to store results. Researched and tested RFID technology. Prototyped a GUI interface to control a module and tag. Developed and designed a hub application with authentication to hold future system testing applications. Student Web Developer, North Carolina State University ITECS Drove unit, end-to-end, and browser tests for web sites using PHP, Laravel Dusk, and Docker. Migrated ReleaseTime, a legacy web application for NCSU professors to manage research funding budgets, to Laravel using API paths, controllers, and Blade templates. **Skills:** - Programming languages: C#, Java, Python - Development frameworks: .NET, Node JS, PHP - Databases: SQL, Google Sheets API - Operating Systems: Ubuntu, Windows (if applicable) - Embedded systems: Familiarity with embedded systems concepts and principles - Agile methodologies: Experience with Agile development practices **Relevant Projects:** -

Future Milestones

- Drag and Drop Kanban Board
- Upload Generated Cover Letters
- Host the application on AWS EC2
- Web Scraper for Job Descriptions from Indeed
- Markdown formatting for notes

Testing

86 Combined Frontend & Backend Tests

JobTrackr
Your One-stop Job Application Toolbox

Team 20: Nathaniel Lorenc (ndlorenc), Jake McDavitt (jfmcdavi), and Thien Do (tndo)

GitHub Repo: https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr

Rubric for Repo

Notes	self-assessment	evidence
Points Total	268	
Workload is spread over the whole team (one team member is often Xtimes more productive than the others…	3	Jira GitHub https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/pulse
but nevertheless, here is a track record that everyone is contributing a lot)	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/pulse
Number of commits	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/graphs/commit-activity https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/graphs/contributors

Number of commits: by different people	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/pulse
Issues reports: there are **many**	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/issues
Issues are being closed	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/issues?q=is%3Aissue+is%3Aclosed
Docs: doco generated, format not ugly	3	https://csc510-do-lorenc-mcdavitt.github.io/jobtrackr/docs/backend/index.html
Docs: what: point descriptions of each class/function (in isolation)	3	https://csc510-do-lorenc-mcdavitt.github.io/jobtrackr/docs/backend/index.html
Docs: how: for common use cases X,Y,Z mini-tutorials showing worked examples on how to do X,Y,Z	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/tree/main/docs
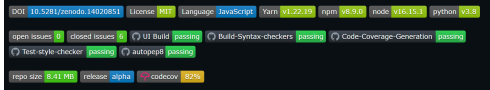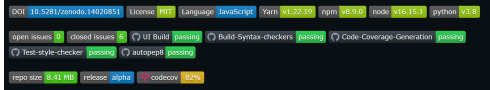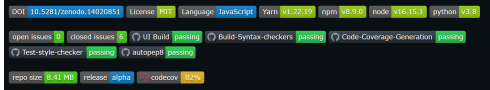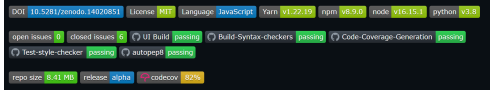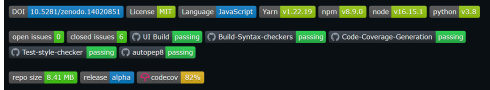
		https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/tree/main/ui/resources https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md
Docs: why: docs tell a story, motivate the whole thing, deliver a punchline that makes you want to rush out and use the thing	3	https://csc510-do-lorenc-mcdavitt.github.io/jobtrackr/docs/backend/index.html
Docs: short video, animated, hosted on your repo. That convinces people why they want to work on your code.	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md https://youtu.be/z4bh9J7PbMI
Use of version control tools	3	Git, GitHub
Test cases exist	3	86 test cases

Test cases are routinely executed	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/actions
Issues are discussed before they are closed	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/issues?q=is%3Aissue+is%3Aclosed Ex: https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/issues/5 We also discussed the issues in-person and over the two chat channels that we used for our project. We ensured that we all agreed the functionality was fully implemented and merged into main before closing the issue.
Chat channel: exists	3	Discord

		Also used iMessage
Test cases: a large proportion of the issues related to handling failing cases.	0	We didn't do Test Driven Development. We also only merged fully functioning and tested code into main.
Evidence that the whole team is using the same tools: everyone can get to all tools and files	3	Everyone can demonstrate their project. Everyone has been making active contributions that require both the frontend and backend.
Evidence that the whole team is using the same tools (e.g. config files in the repo, updated by lots of different people)	3	.env and config.js are being used to config Documentation for updating these are in the repo Everyone is using the same tools

Evidence that the whole team is using the same tools (e.g. tutor can ask anyone to share screen, they demonstrate the system running on their computer)	3	python venv, vsCode, node js. python3.8+ Everyone has the project running and can demonstrate
Evidence that the members of the team are working across multiple places in the code base	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/commits/main/ We have worked across the backend, flask, frontend and testing
Short release cycles	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/commits/main/
The file .gitignore lists what files should not be saved to the repo. See [examples]i(https://github.com/github/gitignore)	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/.gitignore
The file INSTALL.md lists how to install the code	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/INSTALL.md

The file LICENSE.md lists rules of usage for this repo	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/LICENSE
The file CODE-OF-CONDUCT.md lists rules of behavior for this repo; e.g. see example	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/CODE_OF_CONDUCT.md
The file CONTRIBUTING.md lists coding standards and lots of tips on how to extend the system without screwing things up; e.g. see example	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/CONTRIBUTING.md
The file README.md contains all the following	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md
Video	3	https://youtu.be/pfs38jh5hPs
DOI badge: exists. To get a Digitial Object Indentifier, regiser the project at Zenodo. DOI badges look like this:	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md

Badges showing your style checkers	3	
Badges showing your code formatters.	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md
Badges showing your syntax checkers.	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md
Badges showing your code coverage tools	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md
Badges showing any other Other automated analysis tools	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md

Software Sustainability Evaluation		
Does your website and documentation provide a clear, high-level overview of your software?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md
Does your website and documentation clearly describe the type of user who should use your software?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md A user should be someone in the process of looking for a job. This could be a student, unemployed person, or current worker.
Do you publish case studies to show how your software has been used by yourself and others?	2	We showed a demo video of us using the new part of our software. https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr
Is the name of your project/software unique?	3	https://www.trademarkelite.com/trademark/trademark-search.aspx?sw=jobtrackr&wfp=&hline=

Is your project/software name free from trademark violations?	3	https://www.trademarkelite.com/trademark/trademark-search.aspx?sw=jobtrackr&wfp=&hline=
Is your software available as a package that can be deployed without building it?	0	
Is your software available for free?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/LICENSE Ollama is open-source and free as in beer
Is your source code publicly available to download, either as a downloadable bundle or via access to a source code repository?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr
Is your software hosted in an established, third-party repository likeGitHub (https://github.com), BitBucket (https://bitbucket.org),LaunchPad	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr

(https://launchpad.net) orSourceForge (https://sourceforge.net)?		
Is your documentation clearly available on your website or within your software?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md
Does your documentation include a "quick start" guide, that provides a short overview of how to use your software with some basic examples of use?	3	Video Demo https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md
If you provide more extensive documentation, does this provide clear, step-by-step instructions on how to deploy and use your software?	3	README https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md INSTALL.md https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/INSTALL.md

Do you provide a comprehensive guide to all your software's commands, functions and options?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/tree/main/docs https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/backend/README-backend.md https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md
Do you provide troubleshooting information that describes the symptoms and step-by-step solutions for problems and error messages?	0	
If your software can be used as a library, package or service by other software, do you provide comprehensive API documentation?	N/A	N/A. Our software is more of a standalone app
Do you store your documentation under revision control with your source code?	3	https://csc510-do-lorenc-mcdavitt.github.io/jobtrackr/docs/backend/index.html

Do you publish your release history e.g. release data, version numbers, key features of each release etc. on your web site or in your documentation?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/releases/
Does your software describe how a user can get help with using your software?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/CODE_OF_CONDUCT.md https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md
Does your website and documentation describe what support, if any, you provide to users and developers?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md
Does your project have an e-mail address or forum that is solely for supporting users?	3	jobtrackr.github@gmail.com https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/CODE_OF_CONDUCT.md https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/issues

Are e-mails to your support e-mail address received by more than one person?	3	All group members have access to this email: jobtrackr.github@gmail.com https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/CODE_OF_CONDUCT.md
Does your project have a ticketing system to manage bug reports and feature requests?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/issues
Is your project's ticketing system publicly visible to your users, so they can view bug reports and feature requests?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/issues
Is your software's architecture and design modular?	3	There are different files for each of the backend services (i.e. questions.py, applications.py, ollama_connect.py) There are different files for each of the frontend pages that are then shown as tabs on the landing page

		(i.e. Questions, Cover Letter, Resume Suggestions).
Does your software use an accepted coding standard or convention?	2	We try to follow the PEP 8 coding standard for the files we create
Does your software allow data to be imported and exported using open data formats? e.g. GIF, SVG, HTML, XML, tar, zip, CSV, JSON, NetCDF, or domain specific ones Does your software allow communications using open communications protocols? e.g. HTTP, FTP, XMPP, SOAP over HTTP, or domain-specific ones	3	We use PDFs for the resumes we upload, download, and use. communication is primarily through http
Is your software cross-platform compatible? e.g. does it run under two or more of Windows, Unix/Linux and Mac OS X, or can be used from within two or more of Internet Explorer, Chrome, Firefox and Safari	3	Nathan and Thien used Chrome to run this project and Jacob used Firefox

Does your software adhere to appropriate accessibility conventions or standards?	2	
Does your documentation adhere to appropriate accessibility conventions or standards?	3	The documentation we have is automatically generated by a third-party software. Since the third-party software would be required to follow these standards, our documentation follows these standards.
Is your source code stored in a repository under revision control?	3	Our source code is stored in GitHub.
Is each source code release a snapshot of the repository?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/releases/
Are releases tagged in the repository?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/releases/

Is there a branch of the repository that is always stable? (i.e. tests always pass, code always builds successfully)	3	Our main branch of the repository is always stable.
Do you back-up your repository?	3	Repository is hosted on GitHub
Do you provide publicly-available instructions for building your software from the source code?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md
Can you build, or package, your software using an automated tool? e.g. Make (https://www.gnu.org/software/make/), ANT (http://ant.apache.org/), Maven (https://maven.apache.org/), CMake (https://cmake.org/), Python setuptools (https://pypi.python.org/pypi/setuptools), or R package tools (https://cran.r-project.org/doc/manuals/r-devel/R-exts.html)	3	We can build our software using: - Pip install -r requirements.txt - Npm install

Do you provide publicly-available instructions for deploying your software?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/backend/README-backend.md https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/ui/README-frontend.md
Does your documentation list all third-party dependencies?	2	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr
Does your documentation list the version number for all third-party dependencies?	2	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr We provide links to the third-party dependencies, which should show the version number we use on their

		website because we use the latest version. Also, things like python, node, npm, and yarn have version numbers as badges.
Does your software list the web address, and licenses for all third-party dependencies and say whether the dependencies are mandatory or optional?	2	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md
Can you download dependencies using a dependency management tool or package manager? e.g. Ivy (http://ant.apache.org/ivy/), Maven (https://maven.apache.org/), Python pip (https://pypi.python.org/pypi/pip) or setuptools (https://pypi.python.org/pypi/setuptools), PHP Composer (https://getcomposer.org/), Ruby gems (https://rubygems.org), or R PackRat (https://rstudio.github.io/packrat/)	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md

Do you have tests that can be run after your software has been built or deployed to show whether the build or deployment has been successful?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/actions
Do you have an automated test suite for your software?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/actions
Do you have a framework to periodically (e.g. nightly) run your tests on the latest version of the source code?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/tree/main/docs/testing
Do you use continuous integration, automatically running tests whenever changes are made to your source code?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/actions
Are your test results publicly visible?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/actions

Are all manually-run tests documented?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/actions
Does your project have resources (e.g. blog, Twitter, RSS feed, Facebook page, wiki, mailing list) that are regularly updated with information about your software? e.g. release announcements, publications, workshops, conference presentations	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md
Does your website state how many projects and users are associated with your project?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md

Do you provide success stories on your website?	0	
Do you list your important partners and collaborators on your website?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md
Do you list your project's publications on your website or link to a resource where these are available?	0	
Do you list third-party publications that refer to your software on your website or link to a resource where these are available?	0	
Can users subscribe to notifications to changes to your source code repository?	3	Emails are sent to contributors whenever a new version has been pushed and built

If your software is developed as an open source project (and, not just a project developing open source software), do you have a governance model?	N/A	
Do you accept contributions (e.g. bug fixes, enhancements, documentation updates, tutorials) from people who are not part of your project?	3	If they would like to and make a PR for it, yes
Do you have a contributions policy?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/CONTRIBUTING.md
Is your contributions' policy publicly available?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/CONTRIBUTING.md
Do contributors keep the copyright/IP of their contributions?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/LICENSE

Does your website and documentation clearly state the copyright owners of your software and documentation?	3	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/LICENSE
Does each of your source code files include a copyright statement?	0	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/LICENSE
Does your website and documentation clearly state the licence of your software?	3	Yes. MIT License https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr?tab=MIT-1-ov-file
Is your software released under an open source licence?	3	Yes. MIT License

		https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr?tab=MIT-1-ov-file
Is your software released under an OSI-approved open-source licence?	3	Yes. MIT License https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr?tab=MIT-1-ov-file
Does each of your source code files include a licence header?	0	
Do you have a recommended citation for your software?	0	
Does your website or documentation include a project roadmap (a list of project and development milestones for the next 3, 6 and 12 months)?	2	https://github.com/CSC510-Do-Lorenc-McDavitt/jobtrackr/blob/main/README.md

Does your website or documentation describe how your project is funded, and the period over which funding is guaranteed?	0	
Do you make timely announcements of the deprecation of components, APIs, etc.?	2	We haven't had to deprecate anything, so I guess we technically do

Jira

JT2 board

🔍 Search

TO DO	IN PROGRESS	IN REVIEW	DONE 20 ✓
+ Create issue			**Create Poster** ☑ JT2-20 ✓ 👤
			Drag and drop functionality for kanban board ☑ JT2-1 ✓
			20 tests (Jacob) ☑ JT2-12 ✓
			20 tests (Thien) ☑ JT2-13 ✓ TD
			.env documentation and some backend setup ☑ JT2-21 ✓ 👤
			Provide suggestions for resume improvements using ollama with job description context ☑ JT2-7 ✓ NL
			20 tests (Nathan) ☑ JT2-11 ✓ NL
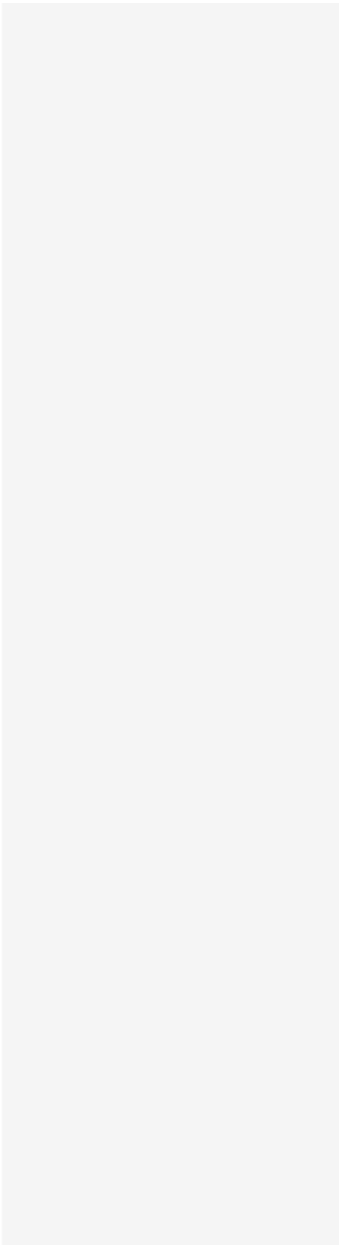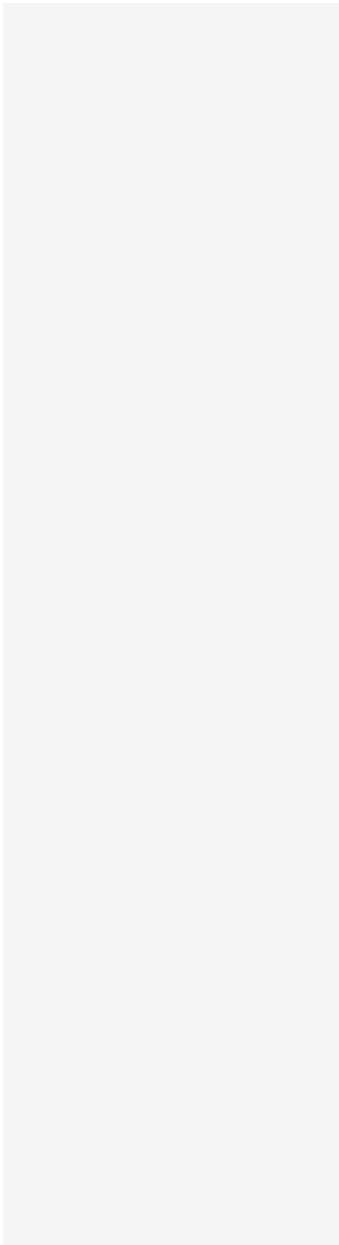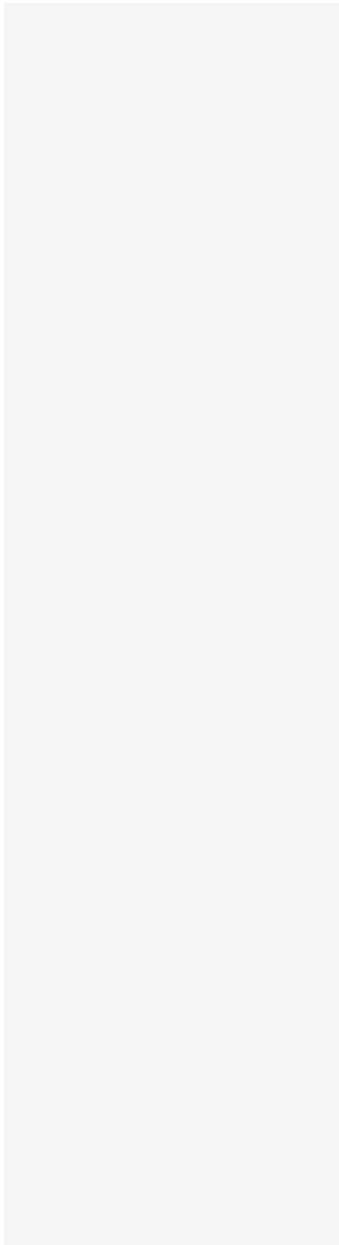
Add company logo attribute for jobs

☑ ~~JT2-2~~ ✓ TD

Provide resume as context to ollama

☑ ~~JT2-4~~ ✓ TD

Connect backend to ollama

☑ ~~JT2-3~~ ✓ NL

Add langchain-ollama to requirements.txt

☑ ~~JT2-15~~ ✓ NL

Page for showing generated cover letter

☑ ~~JT2-18~~ ✓ NL

Add a way to download the Cover Letter as a .pdf file

☑ ~~JT2-17~~ ✓ TD

Probably want to include a loading screen for when prompting Ollama

☑ ~~JT2-16~~ ✓ TD

Provide job descriptions as context to ollama

☑ ~~JT2-5~~ ✓ NL

Update docs for installing Ollama, the model we use, and how to change the model

☑ ~~JT2-14~~ ✓ NL

Remove temporary files that are being downloaded to the backend

☑ ~~JT2-19~~ ✓ TD

Generate cover letters with ollama using resume and job description

☑ ~~JT2-6~~ ✓ NL

Set up a .env file for the AWS credentials

☑ ~~JT2-18~~ ✓ TD

Suggestions page for showing resume improvements

☑ ~~JT2-9~~ ✓