



🔍 Job Search



ResuMind

Team NY4



Team Introduction



Anika Bushra
Front End Developer



Eric Lantz
Front End
Developer



Sarah Wierzbicki
Machine Learning
Trainer/Developer



Joseph Indriolo
Backend/DevOps
Engineer



Agenda

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Retrospective

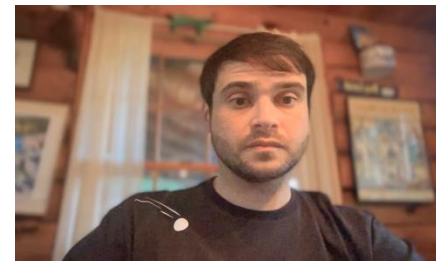


Problem Statement



- Whether you are actively or passively searching for a job, looking for new opportunities can be overwhelming due to:
 - High volume of listings on job sites such as Indeed, LinkedIn, Monster
 - Lack of matching/relevant skills
 - Fake job postings
- There is a clear need for a smarter, more personalized approach to job discovery—one that truly understands the applicant, while making the job selection process simple and clear.

Project Description



- ResuMind is an AI-powered job assistant that personalizes the job search experience for job seekers who struggle to find roles that match their skills and career goals. Our application uses natural language processing to recommend verified job opportunities and helps users understand how closely they fit the role. Unlike traditional job boards that require manual filtering, ResuMind offers a tailored experience by highlighting key details, comparison of strong skills versus areas of improvement, and ways to enhance your resume.
- Benefits include:
 - Reduced job search time
 - Skill match insights
 - Resume feedback
 - Interview prep



Personas



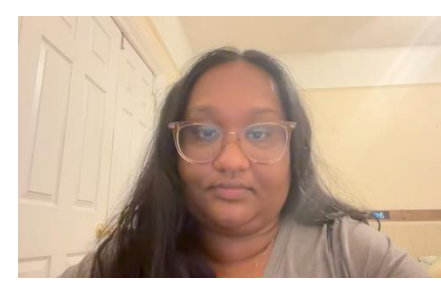
Maria Smith, Returning to Workforce Parent



- **Age:** 40
- **Background:** Former advertising professional that took an 8-year gap to raise children
- **Job search style:** Moderately active
- **Skills:** Microsoft suite, content creation, Adobe creative suite, client communication
- **Challenges:** Unsure of how to present career gap, finding jobs that match previous skills acquired, how to market herself as a competitive candidate
- **Needs:** Resume refresh guidance, remote/hybrid work environment, personalized job recommendations based on experience



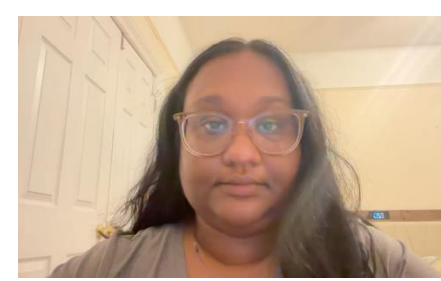
John Lang, Laid-Off Senior Director



- **Age:** 51
- **Background:** Senior Software Engineer Director with 20+ years of relevant experience, recently got laid off due to company budget cuts.
- **Job search style:** Actively searching
- **Skills:** Agile/scrum leadership, cloud platforms, people leader, system design
- **Challenges:** Difficulty navigating a saturated environment, overqualified for many roles
- **Needs:** Competitive salary, curated job listings, specialized skill match



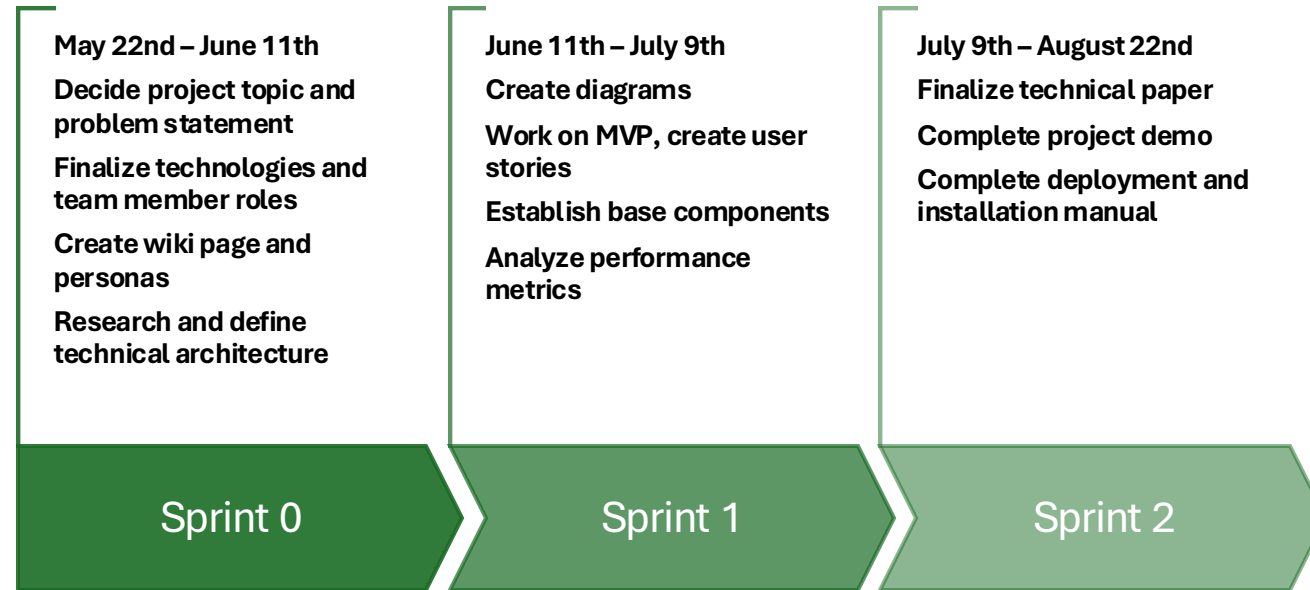
Lisa Burns, Entry-Mid Level Analyst



- **Age:** 28
- **Background:** 4 years as a data analyst in the healthcare industry, looking to transition to the finance industry
- **Job search style:** Passively seeking
- **Skills:** SQL, Python, Data cleaning/validation, advanced proficiency in Excel
- **Challenges:** Lack of time to seek new opportunities, irrelevant job alerts, limited knowledge of financial industry
- **Needs:** High quality job suggestions, analysis of skill transferability, access to learning resources

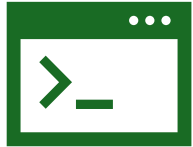


Project Schedule



Weekly meetings will be held at Wednesdays at 8:30 PM to review our progress together and establish weekly individual tasks

Technologies



Languages, libraries and frameworks:

- Front-end:
 - React, JavaScript, Node.js, Express.js
- Back-end:
 - Python, Tensorflow
- Libraries:
 - SpaCy, Scikit-Learn, HuggingFace



Database Management

- MongoDB, AWS



Tools

- Google Colab
- WhatsApp
- Microsoft Teams
- GitHub
- Jira
- VSCode
- Amazon EC2



Algorithms & Design

- **Natural Language Processing**
 - Using the open-source library SpaCy, performing named entity recognition (NER) for keyword extraction
 - Resumes will be parsed using this process to build a user profile based on user skills and experience
- **Sentence Similarity**
 - Cosine similarity and HuggingFace semantic textual similarity models will be used to compare user profile to a database of job postings to recommend the best positions for the user to apply to
 - Missing similarities will provide the user insight into areas of improvement for their resume and professional career.



Team Working Agreement

NY4 Team Working Agreement

June 7, 2025

Team Members

- Joseph Indriolo
- Anika Bushra
- Eric Lantz
- Sarah Wierzbicki

Communication

The team has agreed to make WhatsApp our main channel of text communication. The platform is easily accessible by both mobile and desktop. This will serve as the primary platform to ask questions, raise concerns, or provide any updates. In addition to WhatsApp, the team will use Microsoft Teams as our main platform for live video calls. Live video calls will be scheduled Monday and Wednesday each week at 8:30 PM EST. During the live meetings, we will share any updates with the team, and hold important agile ceremonies as needed. We will schedule more time throughout the week as needed in order to meet our deliverable deadlines. All members of the team are encouraged to contribute to all conversations, as our intention is to deliver the best possible product and diverse experiences and viewpoints are the best way to do this.

Individual Responsibilities

During Sprint planning ceremonies, each team member will be assigned a ticket based on their preference and skill. During planning, each ticket will be pointed in terms of complexity and assigned to an individual to complete. When a ticket is assigned, the assignee is responsible for owning and delivering that work end-to-end. Each team member is expected to deliver their work as committed to in sprint planning. Sprints will be carefully planned according to the team's velocity/capacity. In the event a ticket cannot be completed in the allocated sprint, the ticket will be rolled over to the next sprint.

Definition of Done (DOD)

A ticket is only considered done when the following criteria is met:


- All the acceptance criteria defined in the ticket have been completed
- The feature was tested, fully working and free of errors and bugs.
- The work has been peer reviewed by the rest of the team.
- The feature has been demoed and shared with the rest of the team.
- If it is a code change, the PR has been approved, and merged into the main branch.
- Any acceptable documentation has been updated.

Team Values

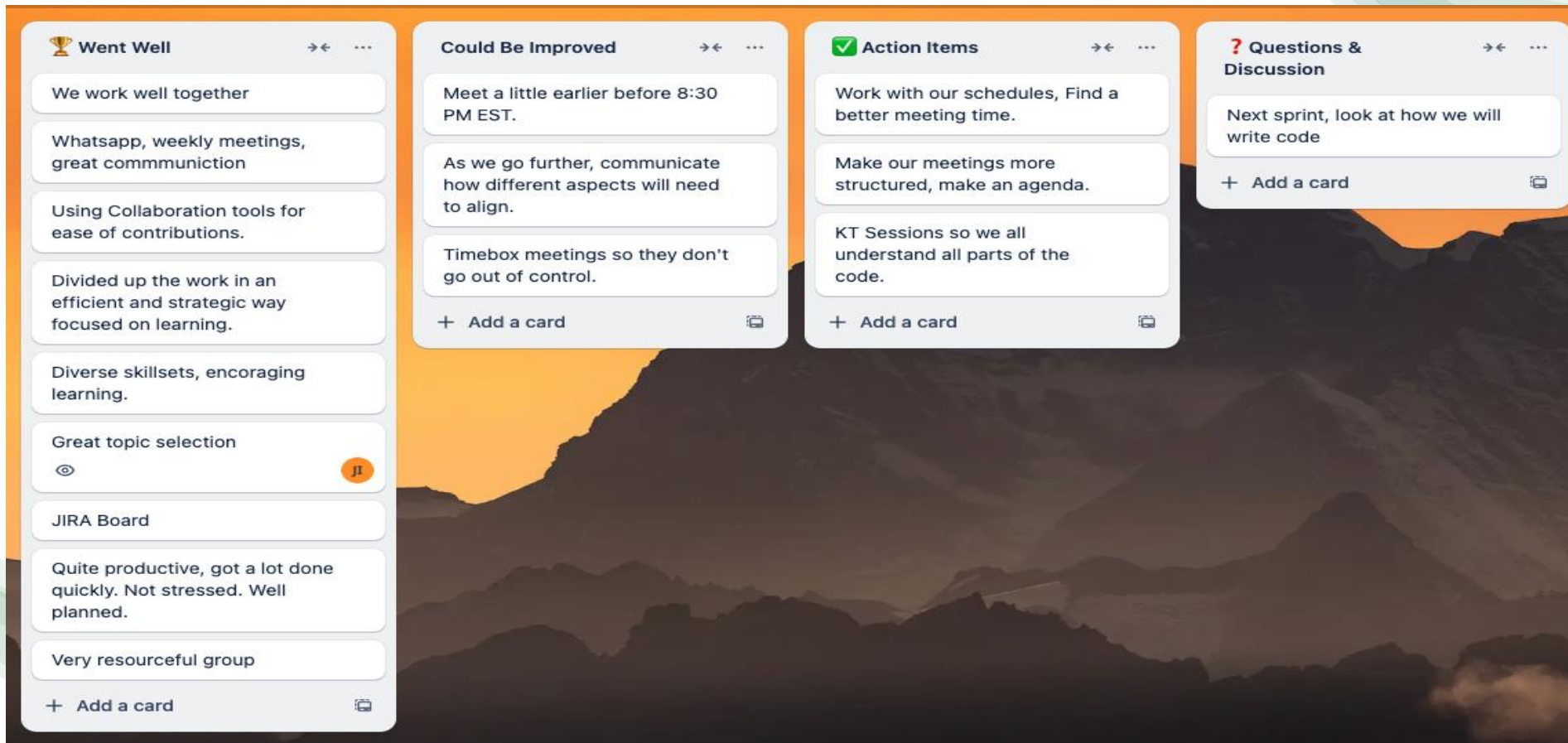
Each team member is responsible for creating a positive and productive working environment. Criticism is encouraged if it is constructive and genuinely intended to improve the project, or the individual's skills. Each team member is encouraged to call out any concerns or blockers early and as needed. Communication is very important and each developer is expected to call out early if they do not believe they can deliver the work they have committed to. Personal attacks or the creation of a toxic working environment are not permitted and will be reported as necessary.

Team Working Agreement

Completed Tasks

<input type="checkbox"/> Sprint 0 28 May – 11 Jun (8 work items)				0	0	8	Complete sprint	...
Plan project, lay out initial contribution model.								
<input checked="" type="checkbox"/>	NY4-1	Create Personas for Presentation		DONE ▾		1	BA	
<input checked="" type="checkbox"/>	NY4-2	Define Problem Statement & Project Description in Presentation		DONE ▾		1	EL	
<input checked="" type="checkbox"/>	NY4-3	Create Technologies & Algorithms Slide		DONE ▾		1	SW	
<input checked="" type="checkbox"/>	NY4-4	Create and define sprint deliverables		DONE ▾		1	SW	
<input checked="" type="checkbox"/>	NY4-5	Create Team Working Agreement		DONE ▾		1	JL	
<input checked="" type="checkbox"/>	NY4-6	Hold Sprint 0 Retrospective		DONE ▾		1	JL	
<input checked="" type="checkbox"/>	NY4-7	Research and Define Technical Architecture		DONE ▾		1	JL	
<input type="checkbox"/> <input checked="" type="checkbox"/>	NY4-8	Create Wikipage and insert Sprint 0 data into it 		DONE ▾		1	EL	...
+ Create								

Retrospective



[Sprint Retrospective Board](#)

Wiki Link:

<https://github.com/htmhw/2025Su-NY4/wiki>