

**MICHIGAN STATE**  

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**U N I V E R S I T Y**

# Beta Presentation

## Next Step Insight

### The Capstone Experience

Team Auto-Owners

Aleksander Russa

Jason Janz

Bhaaniu Jain

Briana Hill

Jacquelyn Nehra

Department of Computer Science and Engineering  
Michigan State University

Spring 2025



*From Students...  
...to Professionals*

# Project Overview

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- Web application that enhances workforce planning
- Streamlines the talent management process
- Increases automation of tedious processes
- Comprehensive and user-friendly data entry system

# Team Member's Technical Tasks

## Technical Tasks Assigned

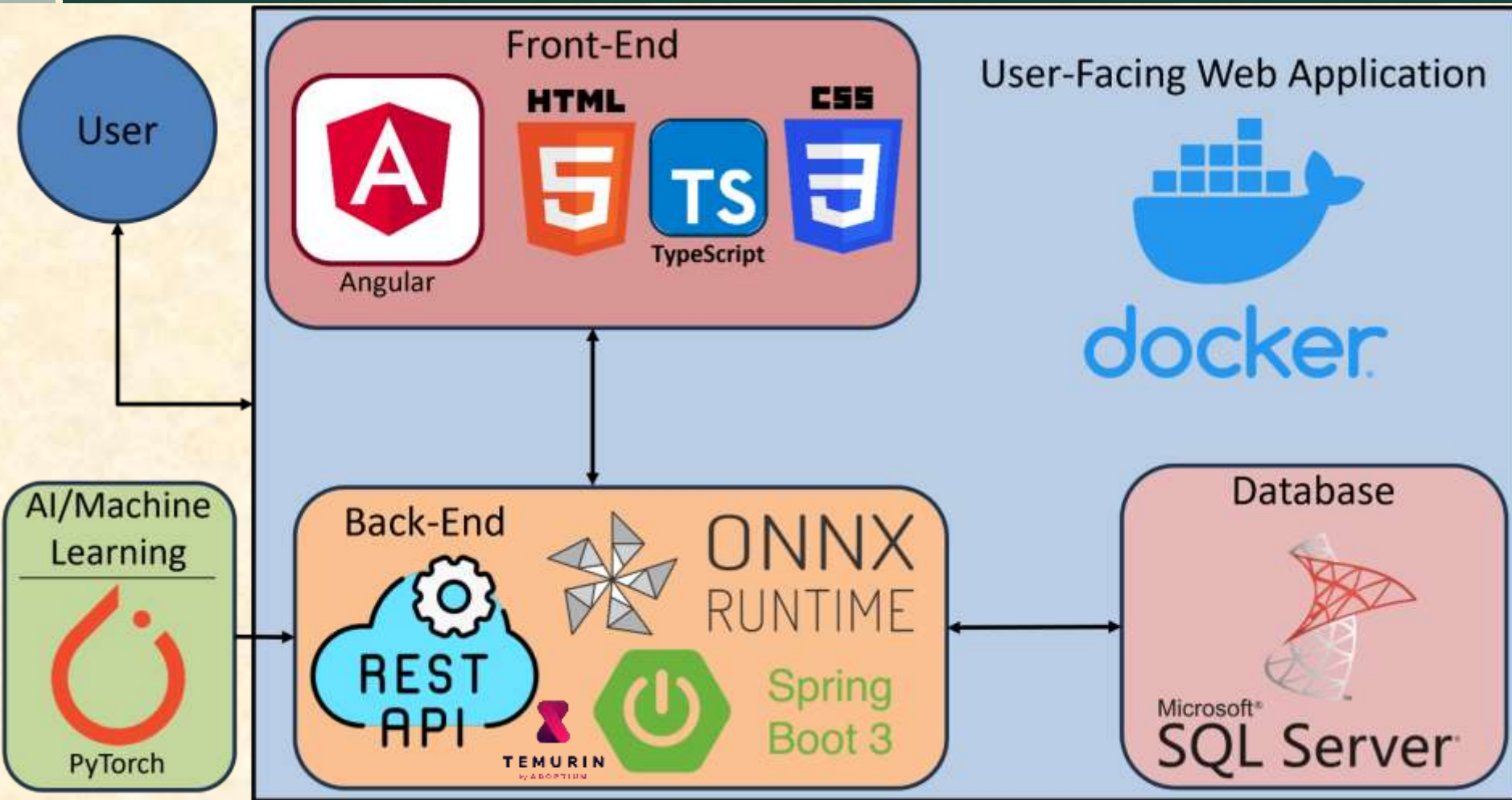
- Aleksander Russa
  - Setup Angular/Gitlab/Spring Boot projects and Configs
  - Create user authentication using auth guards
  - JWT for API security when we are making calls to the backend
  - Implement User Level functionality based on Admin Role
  - Setup all relevant files to get docker working + all other configs
- Jason Janz
  - Made employees table and set up the API to display them
  - Implement the search bar and dropdown filter functionality
  - Create default filters based on a position's role/branch
  - Made the admin table, can create/view/edit/delete users from it
- Jacquelyn Nehra
  - Create a machine learning model that rates the candidates, fully integrate it using ONNX
  - Create a way to favorite candidates
  - Add functionality to delete and fill a position
- Bhaaniu Jain
  - Create tasks and favorites table and the API calls to show them
  - Create most of the basic page layouts and CSS changes
  - Add functionality to remove candidates from positions
- Briana Hill
  - Create pagination for candidates and positions
  - Create ability to edit candidate information
  - Create reports for both candidates and position
  - implement candidate selection

## Technical Tasks Completed

- Aleksander Russa
  - Setup Angular/Gitlab/Spring Boot projects and Configs
  - Created user authentication using auth guard
  - JWT for API security when we are making calls to the backend
  - User Level functionality implemented based on Admin Role
  - Setup all relevant files to get docker working + all other configs
- Jason Janz
  - Made employees table and set up the API to display them
  - Implement the search bar and dropdown filter functionality
  - Create default filters based on a position's role/branch
  - Made the admin table, can create/view/edit/delete users from it
- Jacquelyn Nehra
  - Created a machine learning model that rates the candidates, fully integrated it using ONNX
  - Created a way to favorite candidates, but not per user
  - Added functionality to delete and fill a position
- Bhaaniu Jain
  - Created tasks and favorites table and the API calls to show them
  - Created most of the basic page layouts and CSS changes
  - Added functionality to remove candidates from positions
- Briana Hill
  - Created pagination for candidates and positions
  - Created ability to edit candidate information
  - Created reports for both candidates and position
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# System Architecture



# Home Page

The screenshot displays the 'Auto-Owners INSURANCE' home page. At the top, there is a navigation bar with the company logo, a search bar labeled 'Search by Name, Position, or Branch', and a 'Logout' button. On the left, a 'Navigation' sidebar lists: Home, Candidates, Positions, New Candidates, and New Positions. The main content area is titled 'My Home' and 'MY CANDIDATES', featuring four candidate cards: Emma Garcia (Underwriter, Claims), Sophia Martinez (Security Analyst), Charlotte Thomas (Product Manager, Business Analyst), and Ethan Mitchell (Business Analyst). Each card includes a profile picture and a star icon. At the bottom of the candidate list, there is a 'Items per page' dropdown set to 10 and a pagination indicator '1 - 4 of 4'. On the right, a 'My Tasks' sidebar contains three task items with checkboxes, dates, and 'Edit' buttons: 'Add Charlotte Thomas and Ethan Mitchell to Lansing Claims Adjuster' (2025-04-03), 'Create open position marketing management lead' (2025-04-02), and 'Send report for position Appleton Under Writer to Sam for review' (2025-04-02).

# Candidates Page

The screenshot shows the 'Candidates' page in the Auto-Owners Insurance system. The page has a dark blue header with the company logo and a search bar. A navigation sidebar is on the left. The main content area displays a grid of candidate profiles, each with a photo, name, position, and a star rating.

**Navigation:**

- Home
- Candidates
- Positions
- New Candidates
- New Positions

**Search Bar:** Search by Name, Position, or Branch

**Filters:**

- Select Availability
- Select Relocatable Locations
- Select Future Potential
- Select Associate Efficiency
- Apply
- Select Candidates

**Candidate Profiles:**

| Name              | Position                                       | Star Rating |
|-------------------|--|-------------|
| James Wilson      | Underwriter                                    | ☆           |
| Emma Garcia       | Underwriter, Claims                            | ★           |
| William Taylor    | Underwriter, Claims Specialist                 | ☆           |
| Sophia Martinez   | Security Analyst                               | ★           |
| Alexander Johnson | Security Analyst, Branch Personal Underwriting | ☆           |
| Olivia Williams   | Security Analyst                               | ☆           |
| Benjamin Anderson | Product Manager                                | ☆           |
| Charlotte Thomas  | Product Manager, Business Analyst              | ☆           |
| Ethan Mitchell    | Business Analyst                               | ☆           |
| Amelia Lee        | Business Analyst, Project Coordinator          | ☆           |

# Candidate Summary

The screenshot shows the Auto-Owners Insurance Candidates page. A modal window titled "Candidate Summary" is open, displaying details for Emma Garcia. The modal includes a profile picture, an AI Rating of three stars, and a list of attributes and values. At the bottom of the modal are buttons for Print, Edit, and Delete.

| Attribute             | Value                                      |
|-----------------------|--|
| Team:                 | Underwriting Team                          |
| Job Title:            | Home Office Commercial Underwriting States |
| Hire Date:            | 2022-02-10                                 |
| Potential Positions:  | Underwriter, Claims                        |
| Insurance Line:       | Commercial                                 |
| Relocatable:          | No   |
| Relocatable Location: | None                                       |

AI Rating: ★★ ★

Buttons: Print, Edit, Delete

# Position Pool Page

Navigation

- Home
- Candidates
- Positions
- New Candidates
- New Positions

Auto-Owners INSURANCE

Logout

## Positions Pool

Job Opening

**Branch Personal Underwriting** ✓

Lansing

Email: janjaso@ao.com

Generate Report

Select Availability ▾

Select Relocatable Locations ▾

Select Future Potential ▾

Select Associate Efficiency ▾

Apply

Remove Candidates from Position

| Name              | Title                             | Star Rating |
|-------------------|-----------------------------------|-------------|
| Emma Garcia       | Underwriter, Claims               | ★           |
| Sophia Martinez   | Security Analyst                  | ★           |
| Olivia Williams   | Security Analyst                  | ☆           |
| Benjamin Anderson | Product Manager                   | ☆           |
| Charlotte Thomas  | Product Manager, Business Analyst | ★           |



# What's left to do?

- Features
- Stretch Goals
  - Finalize file upload method
- Other Tasks
  - Style changes
  - Run through Lighthouse



# Questions?

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