

MICHIGAN STATE

UNIVERSITY

Project Plan Presentation

RecruiTrack

The Capstone Experience

Team Auto-Owners

Michael Liu
Sophie Martin
Ken Michalak
Andrew Nader
Jacob Riggs

Department of Computer Science and Engineering
Michigan State University

Spring 2022



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

Functional Specifications

- Auto Owners would like to track data about how recruiters at their company spend their time and resources, and then summarize that data for decision making and future planning.
- Allows an Auto-Owners employee to login and enter reference data relating to recruitment.
- Will be able to generate the required reports and summaries and send them to their boss immediately.



Design Specifications

- Data Entry View
 - Tabs separating data categories
 - Add, view, edit data
 - Dialog box for adding data
- Summary View
 - Tabs separating summary panels
 - Filters for summary tables
 - Calendar view



Screen Mockup: Default Screen

Auto-Owners
INSURANCE

Sophie Martin LOG OUT

RecruitTrack

DATA ENTRY VIEW SUMMARY VIEW

Recruiter Log

DATE	INSTITUTION/ ORGANIZATION	STATE	EVENT/EFFORT NAME	EVENT TYPE	ECOS
02/04/2021	Michigan State University	MI	Midwest Tech Career Fair	IT	Yes
03/15/2016	Michigan State University	MI	Women in Computing Sponsor	IT	Yes
10/21/2021	Western Michigan University	MI	Fall Actuary Career Fair	Actuarial	No
10/29/2021	Eastern Michigan University	MI	Team Brunch	Non-actuarial/IT	Yes
01/25/2022	Michigan State University	MI	Career Center Company Fair	IT, Actuarial	Yes
04/16/2016	Drexel State University	OH	End of Semester Last Chance Fair	Actuarial	Yes
04/25/2020	Kalamazoo College	MI	Kalamazoo Corporate Fair	Non-actuarial/IT	Yes
06/17/2021	Kalamazoo College	MI	Women in Tech Speaking Event	IT	No
02/14/2022	Kettering University	MI	Virtual Career Fair	Actuarial	No
03/25/2022	Grand Valley State University	MI	Handshake IT + Tech Fair	IT	Yes

ADD LOG ENTRY



Screen Mockup: View-Only Data

The screenshot displays the RecruitTrack web application interface. At the top, the 'Auto-Owners INSURANCE' logo is visible. Below it, the 'RecruitTrack' title is shown, along with navigation tabs for 'Recruiter Log', 'Funding', 'University Data', and 'Hiring Data'. The 'University Data' tab is active, and there are buttons for 'DATA ENTRY VIEW' and 'SUMMARY VIEW'. The main content area is divided into two sections: 'Approved University Data' and 'Approved University (View-Only)'. The 'Approved University Data' section contains a table with columns for University Name, Address, Region, Recruiter, Recruiting Effort, and Region. The 'Approved University (View-Only)' section displays detailed information for a selected university, including its name, address, region, recruiter, recruiting effort, regional contact, tier, and undergraduate student population.

UNIVERSITY NAME	ADDRESS	REGION	RECRUITER	RECRUITING EFFORT	REGION
Michigan State University	33 Trowbridge East Lansing, MI 48823	Midwest	Matthew Alashan	IT	Matthe
Western Michigan University	1903 W. Michigan Ave. Kalamazoo, MI	Midwest	Sophie Martin	Actuarial	Sophie
Stanford University	490 Serra Mall, Stanford, CA 94305	West	Sophie Martin	IT	Sophie
University of Connecticut	333 Gleebrook, Storrs, CT 06269	East	Jacob Riggs	Non-technical	Jacob

UNIVERSITY NAME	ADDRESS	REGION	RECRUITER	RECRUITING EFFORT	REGION
University of Wisconsin	500 Lincoln Dr. Madison, WI 53706	Midwest	Matthew Alashan	IT	Matthe
University of Michigan	1220 Main St, Ann Arbor, MI 48109	Midwest	Matthew Alashan	IT, Actuarial	Matthe
Kalamazoo College	1300 Academy St, Kalamazoo, MI	Midwest	Jacob Riggs	Non-technical, IT	Jacob

Approved University (View-Only)

- University Name: Michigan State University
- Address: 33 Trowbridge East, Lansing, MI 48823
- Region: Midwest
- Recruiter: Matthew Alashan
- Recruiting Effort: IT
- Regional Contact: Matthew Alashan
- Tier: 2
- Undergraduate Student Population: 51,457
- Distance from Regional Office (miles): 25



Screen Mockup: Editing Data

The screenshot displays the RecruitTrack web application interface. At the top, the Auto-Owners Insurance logo is on the left, and the user name 'Sophie Morlin' with a 'LOGOUT' link is on the right. Below the header, the 'RecruitTrack' title is centered, with 'DATA ENTRY VIEW' and 'SUMMARY VIEW' buttons to its right. A navigation bar contains 'Recruiter Log', 'Funding', 'University Data', and 'Hiring Data' tabs. The main content area is titled 'Recruiter Log' and features a table with the following data:

DATE	INSTITUTION/ ORGANIZATION	STATE	EVENT/EFFORT NAME	EVENT TYPE	RD
02/04/2021	Michigan State University	MI	Midwest Tech Career Fair	IT	Yes
03/15/2019	Michigan State University	MI	Women in Computing Sponsor	IT	Yes
10/21/2021	Western Michigan University	MI	Fall Actuary Career Fair	Actuarial	No
10/31/2021	Eastern Michigan University	MI	Work Brunch	Non-actuarial/IT	Yes
01/25/2022	Michigan State University	MI	Career Center Company Fair	IT Actuarial	Yes
04/16/2019	Ohio State University	OH	End of Semester Last Chance Fair	Actuarial	Yes
04/25/2020	Kalamazoo College	MI	Kalamazoo Corporate Fair	Non-actuarial/IT	Yes
06/17/2021	Kalamazoo College	MI	Women in Tech Speaking Event	IT	No
02/14/2022	Kettering University	MI	Virtual Career Fair	Actuarial	No
03/25/2022	Grand Valley State University	MI	Handshake IT + Tech Fair	IT	Yes

Below the table is an 'ADD LOG ENTRY' button. To the right, the 'Recruiter Log View' form is open, showing the details for the selected entry (01/25/2022):

- Date: 01/25/2022
- Institution/Organization: Michigan State University
- State: MI
- Event/Effort Name: Career Center Company Fair
- Event type: IT Actuarial Non-actuarial/IT
- Registered:
- Cost: 500

At the bottom of the form are 'EDIT ENTRY' and 'DELETE ENTRY' buttons.



Screen Mockup: Adding New Data

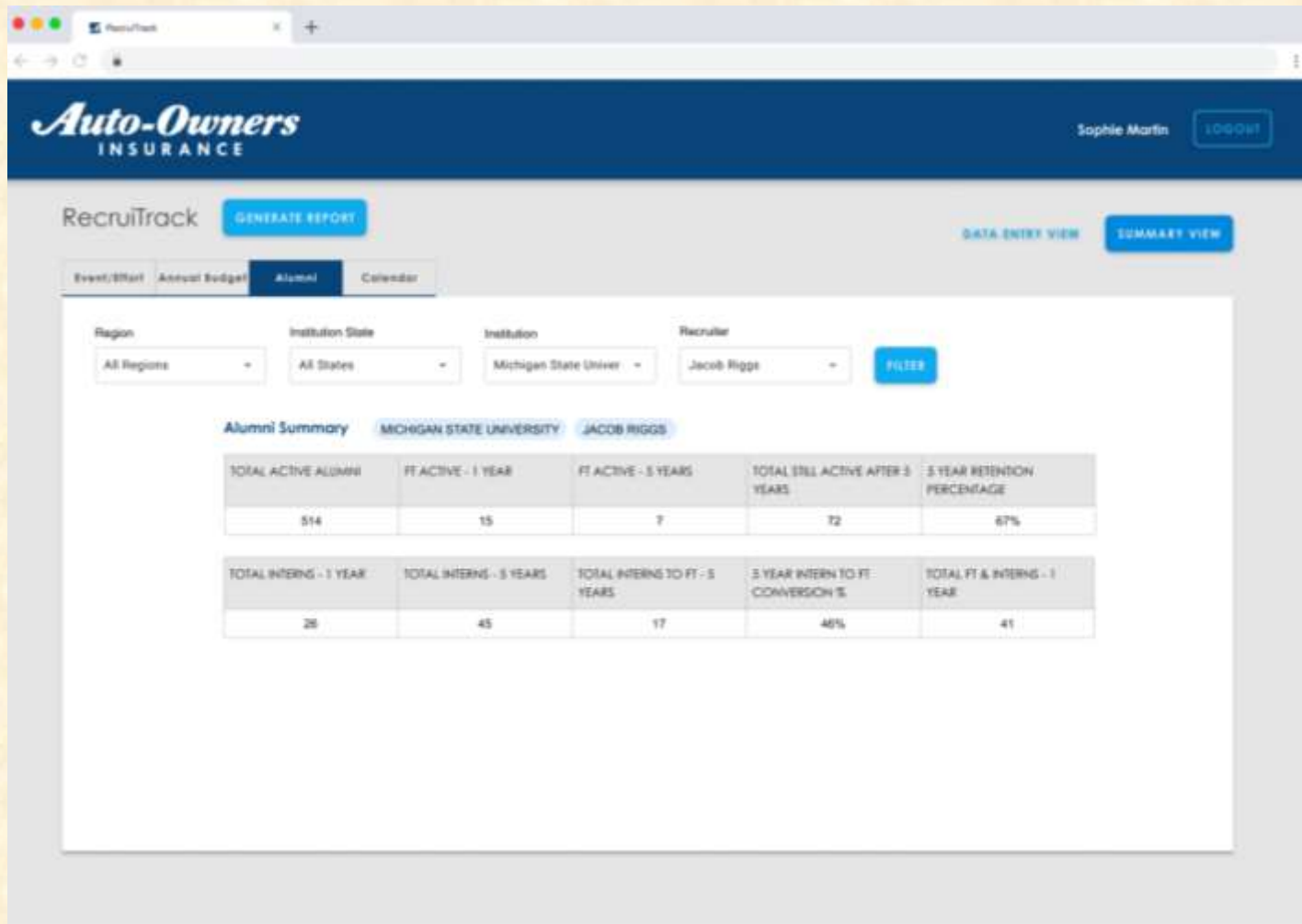
The screenshot displays the Auto-Owners Insurance RecruitTrack interface. A modal window titled "ADD RECRUITER LOG ENTRY" is open over a blurred background of a recruiter log table. The form contains the following fields and options:

- Date:** 01/23/2021
- Institution/Organization:** Saginaw Valley State Univ
- Event/Effort Name:** Winter Virtual Career Fair
- Event Type:** IT Actual Non-actual
- Registered?**
- Cost:** 250
- Funds Borrowed?**
(If yes) Funds Used:
(If yes) Institution Borrowed From:
- Cushion Used?**
(If yes) Cushion Amount: 50
- Start Time:** 3:00
- End Time:** 5:30
- Attendee(s) - Recruiter:** Sophie Martin, Jacob Riggs
- Attendee(s) - Non-Recruiter:** Sophie Martin, Jacob Riggs
- Real Vehicle?**
- Notes:** Need to verify payment with Career Center
- New Event?**

An "ADD LOG ENTRY" button is located at the bottom right of the form.



Screen Mockup: Summary Panel



Auto-Owners INSURANCE

Sophie Martin [LOGOUT](#)

RecruTrack [GENERATE REPORT](#) [DATA ENTRY VIEW](#) [SUMMARY VIEW](#)

Event/Effort Annual Budget **Alumni** Calendar

Region: All Regions Institution State: All States Institution: Michigan State Univer Recruiter: Jacob Riggs [FILTER](#)

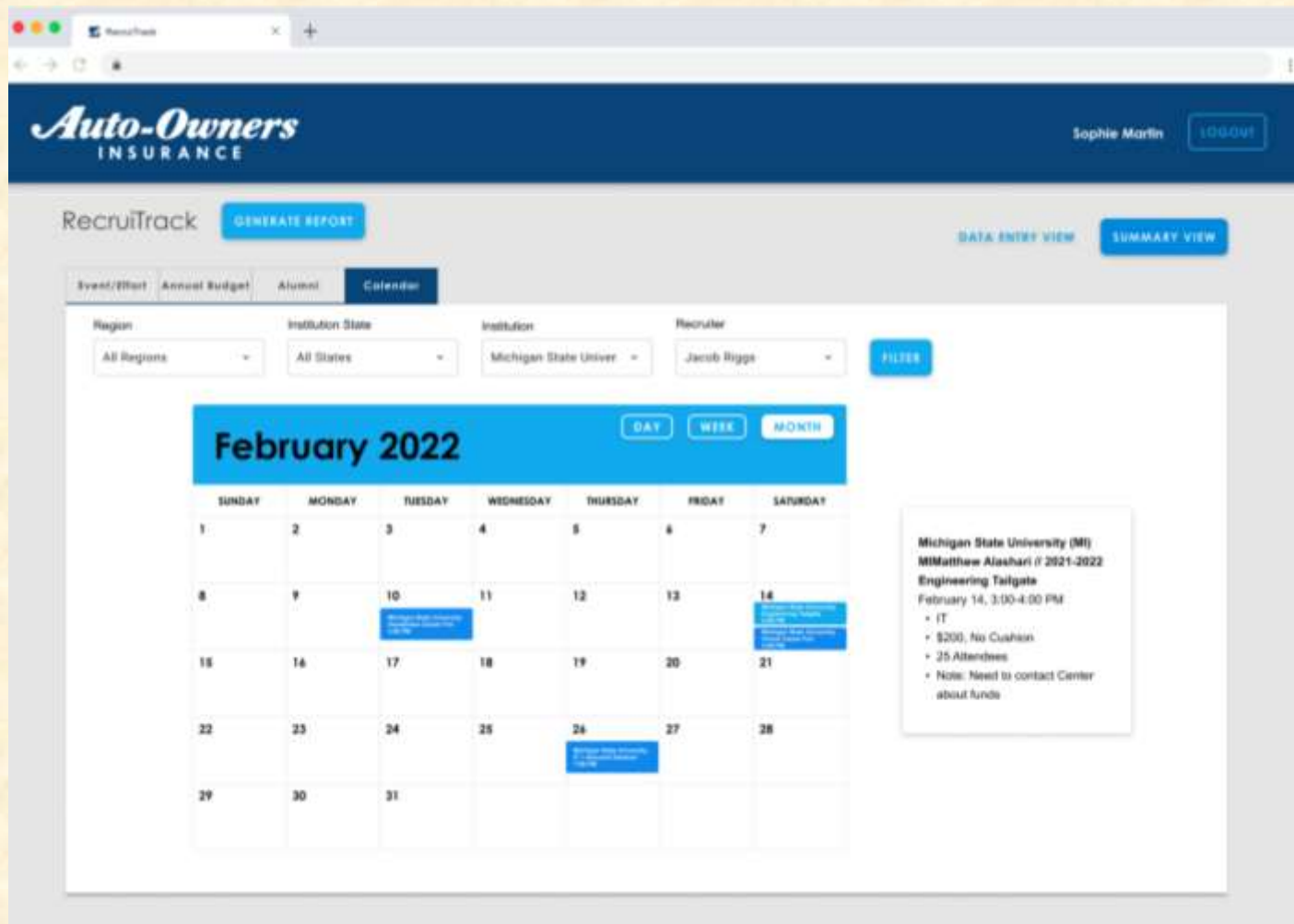
Alumni Summary [MICHIGAN STATE UNIVERSITY](#) [JACOB RIGGS](#)

TOTAL ACTIVE ALUMNI	FT ACTIVE - 1 YEAR	FT ACTIVE - 3 YEARS	TOTAL STILL ACTIVE AFTER 3 YEARS	5 YEAR RETENTION PERCENTAGE
514	15	7	72	67%

TOTAL INTERNS - 1 YEAR	TOTAL INTERNS - 3 YEARS	TOTAL INTERNS TO FT - 3 YEARS	5 YEAR INTERN TO FT CONVERSION %	TOTAL FT & INTERNS - 1 YEAR
26	45	17	46%	41



Screen Mockup: Calendar View

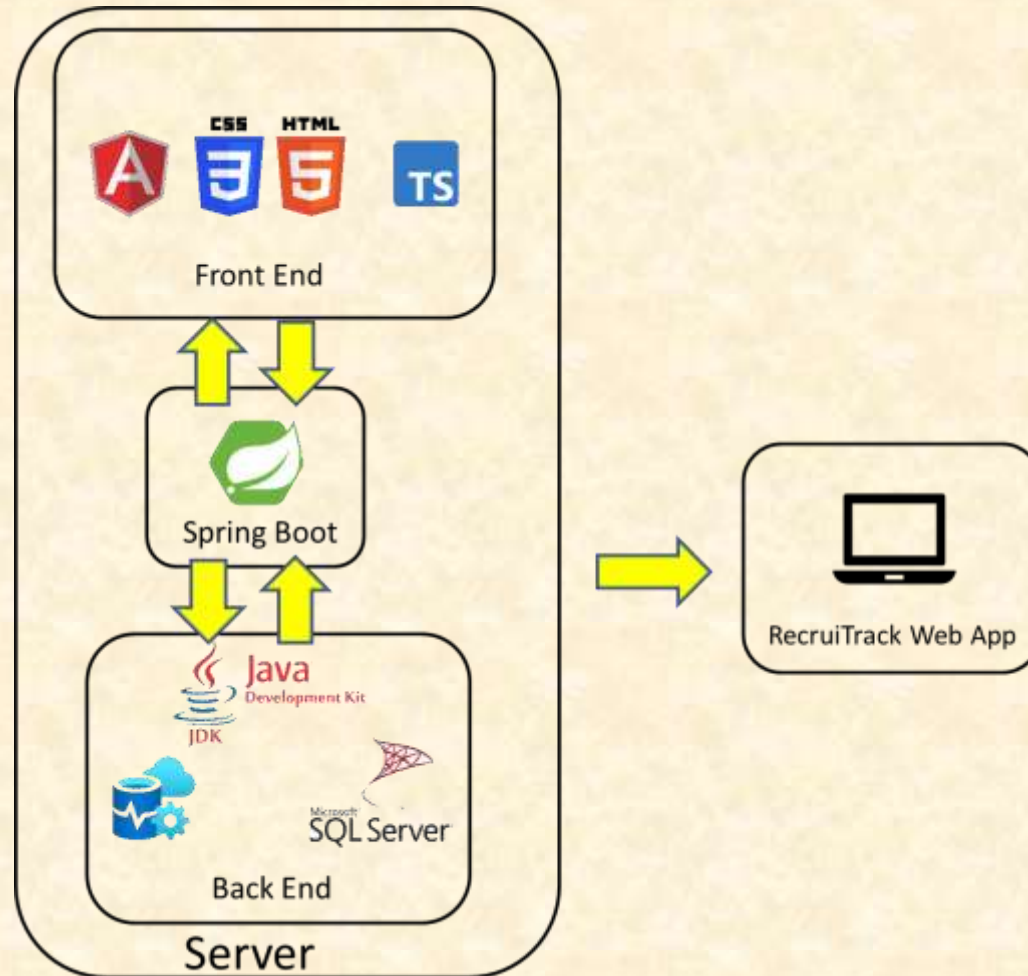


Technical Specifications

- Database technologies
- Web application
- Authentication
- Web hosting
- APIs



System Architecture



System Components

- Hardware Platforms
 - No hardware needed
- Software Platforms / Technologies
 - Visual Studio Code for development IDE
 - Angular for front-end development
 - Java for back-end development
 - Spring Boot for running the application
 - Windows Server Edition for hosting the web app
 - Microsoft Azure SQL Database for database hosting



Risks

- Setting up an accessible online database
 - There must exist an instance of a Microsoft SQL database hosted online in a manner accessible by all teammates.
 - Research all available and relevant options for hosting a database, decide upon the one best suited for both development and eventual migration to the clients in house hosting method.
- Compatibility of web app with Auto-Owners' system
 - This product will be for use by an entity separate from the one developing it.
 - Constant communication with the client about the direction of the products development will ensure clarity for both entities
- Creating a Secure Database Environment
 - This product will handle sensitive and confidential information; It is important that variabilities be mitigated, minimized, or eliminated as much as possible
 - Research on contemporary best practices, actions based upon that research, and time to review and refine code



Questions?

?

?

?

?

?

?

?

?

?

