

Ryan Malvey

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SUMMARY

B.S. Software Engineering student at Milwaukee School of Engineering with internship experience and numerous, hands-on, team-based experiences in the areas of web development, user experience, software architecture, DevOps, and agile development. Devoting 20-25 hours per week as a member of NCAA Track and Cross Country teams. Skills in Java, Javascript, HTML, CSS, C, C++, Git repositories, and Scrum process.

EDUCATION

B.S. Software Engineering | Milwaukee School of Engineering | GPA: 3.22 | Expected May 2026

INTERNSHIP EXPERIENCE

Salesforce Developer | National Marrow Donor Program | Minneapolis, MN | June 2023 - August 2023

Project Objective: Expanded patient data fields in collaboration with developers and healthcare professionals to improve data submission and user experience for doctors and nurses.

- Worked on 1-4 point stories in an agile scrum environment.
- Added new fields and updated security profiles to ensure privacy is upheld for medical records.
- Created a flow using Apex that adds and removes security permissions to fix a field level security bug.

Result: Updated medical record page is currently in use and actively enhancing the workflow of medical professionals working at the National Marrow Donor Program.

PROJECT EXPERIENCE

Bartender Website

Project Objective: Created a bartender website that allows users to import CSV files for drink recipes and CSV files for their stock of ingredients, allowing users to browse recipes and sort by ingredients.

- Created a page for menu items where users can view all imported recipes.
- Created a page for ingredients where users can view all the ingredients they have in stock.
- Added a filter tab so users can sort the recipes by certain ingredients, or display only recipes available based on ingredients they have in stock.
- Added an SQL database that saves imported recipes and ingredients.

AI Player Score Predictor

Project Objective: Create an application that predicts player statistics for different sports, and tell users who they should bet on or start for their fantasy teams.

- The frontend is built using Expo and React and is formatted for both mobile and desktop.
- A player search tab allows users to easily look at predicted outcomes for a specific player.
- A fantasy tab shows users who on their fantasy team we predict will score the highest in the next game.
- A betting tab analyzes different sports books and finds players who are the safest to bet on based on our predictions for their upcoming games.
- The backend (hosted on Azure VM/Databricks compute) provides prediction data directly to the app.
- We utilized different sports APIs to acquire player dataframes.
- Pipe api data from endpoint to preprocessor to multihead transformer model.
- The AI combines textual and tabular data for enhanced predictive capability.

Wordle Game Recreation

Project Objective: Built a recreation of the popular game Wordle and added some new modes and themes.

- Utilized a scrum process to work on this project with a team of people.
- Created multiple themes and modes for different seasons and holidays.
- Added new features including a statistics screen to give the user more data about correct and incorrect guesses, along with some other stats.

Personal Portfolio Website

Project Objective: Created a portfolio website with my education, project experience, and contact info.

- Used HTML, CSS, and Javascript to make a website that showcases my education and experience.
- Created different formats depending on the screen size of the device used to view the website.
- Incorporated dynamic transitions to improve the experience of the users.

Spotify Song Ranking Website

Project Objective: Create a website that gets spotify albums based on their link and allows the user to rank all of the songs on the album and save the rankings to a database, as well as view previously ranked songs.

- Uses the Spotify Web API to get album data based on the url of the album to get the album songs.
- Displays each song with a slider from 1 to 10 allowing the user to set a rank for that song.
- Automatically saves the user rankings to a mongoDB database and allows the user to view previous rankings that are already saved in the database by selecting the desired album from a list.

Restaurant Website UI Overhaul

Project Objective: Redesigned the webpage for a popular website to have a better user experience.

- Added a more clear menu with an image carousel for the menu items to let customers see available food.
- Utilized the card sorting UI improvement strategy to make a more intuitive home page for users.
- Cleaned up the background and removed distractions while still maintaining the spirit of the website.

Bracket Maker Website

Project Objective: A simple website used to create an interactive bracket for single elimination tournaments.

- Added number spinner so the user can select a certain number of teams to compete.
- Bracket will automatically generate the correct number of teams with bye weeks as needed.
- Selecting a winning team will highlight them and move them to the next game

TECHNICAL SKILLS

Programming Languages: Java, Javascript, C, C++, Python, Apex

Web Development: HTML, CSS, SQL, Front End / User Experience Design

Dev Tools and Processes: Agile Scrum, Gearset, Git Version Control, Software Testing, Salesforce

NCAA STUDENT ATHLETE EXPERIENCE

MSOE NCAA Cross Country & Track Teams | August 2022 - Present | 20-25 hrs per wk

- Balance 2 semester, 3-hour, daily practice, off season training & weekly meet travel with full-class schedule.
- Demonstrated resilience and perseverance through challenging conditions (extreme weather, early morning practices, and double practice days), consistently pushing physical and mental barriers.
- Strengthened work ethic and time management by adapting to rigorous training schedules while keeping on top of schoolwork, projects, and exams.

Developing teamwork, communication skills, time management and prioritization skills, competitive character, highly disciplined work ethic, and performance excellence.

LEADERSHIP EXPERIENCE | CO-CURRICULAR INVOLVEMENT

Cove Student Scholar | MSOE Maker Space | August 2023 - May 2024 | 10 hrs per wk

Geometry Tutor | Mahtomedi High School | January 2022 - June 2022 | 4 hrs per wk

Cross Country Captain | Mahtomedi High School | August 2020 - June 2022 | 12 hrs per wk

WORK EXPERIENCE

AI Output Verifier | Data Annotation | June 2024 - August 2024 | 20 hrs per wk