

# Emili Robles

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## Education

### University of Wisconsin-Madison

May 2025

*BS in Computer Science & Data Science*

- **Minors:** Digital Studies & Leadership
- **Coursework:** Artificial Intelligence, Mobile Development, Big Data Systems, Data Visualization, Human Computer Interaction, Machine Organization, UI Development, Virtual Reality
- **Involvement:** HSF, WACM Chair, RTC, L&S Ambassador, Codepath, Colorstack, MLT Fellow, SHPE

## Technologies

**Languages:** Java, JavaScript, Kotlin, Python, R, React, SQL, HTML, CSS

**Technologies:** Linux, GitHub, RStudio, VSCode, Android Studio, Figma, Firebase, Tableau, Pandas, NumPy

## Experience

### Undergraduate Research AI Assistant

Madison, WI

*Information Science Lab, UW-Madison iSchool*

Aug 2024 - Present

- **Supporting AI fairness research** by analyzing website and survey usability to improve accessibility for auditors evaluating machine learning issues, ensuring that tools were accounted for diverse user needs.
- Co-developed a multilabel classification model using **TF-IDF** and **Random Forest** in R.
- Prepared datasets by identifying uncoded entries and generating complete labels for classification.
- Created automated audit report templates in **RMarkdown** to visualize theme frequency and support equity-focused insights in public ML system audits.

### Software Engineer Intern

Seattle, WA

*Starbucks*

June 2024 - Aug 2024

- Developed an **automation tool** to enhance the efficiency of updating test cases in TestRail, reducing duplication by **50%** for Quality Engineers and improving app quality for users.
- Facilitated collaboration as a **Project Manager** by using **Jira** storyboards to track progress and conducting bi-weekly standups with Quality Engineers and Quality Assurance teams.
- Merged **6 pull requests** into the Starbucks mobile application, ensuring seamless integration of updates to enhance user experience.

### Information Technology Intern

Chicago, IL

*Loop Capital*

June 2022 - Aug 2022

- Developed an **imaging process for 40 computers** that streamlined integration with **SaaS** and **PaaS** tools, enhancing user accessibility and improving overall workflow efficiency for end users.

### Machine Learning Intern

Chicago, IL

*Balyasny Asset Management*

June 2021 - Aug 2021

- Created **data visualizations** to identify correlations for predicting **stock prices** ahead of earnings announcements, enhancing user understanding and facilitating informed investment decisions.
- Cleaned and scraped quarterly earnings data from 10 different S&P 500 stocks using Jupyter Notebook.

## Projects

### Fairness Audit Classifier, UW-Madison iSchool

[GitHub Lab](#) 

- Co-developed and evaluated multilabel classifiers (**Logistic Regression**, **TF-IDF + SVM**) to detect fairness concerns in responses; LR outperformed others on key labels such as 'Underrepresented Group'.
- Used trained models to classify uncoded responses at scale and show frequent concerns (e.g., 'Missing Contextual Factors'), contributing to a report interface that helps developers interpret contextual fairness risks.
- Tools Used: R, text2vec, caret, tidyverse, LiblineaR, reticulate, Python

### PieceItPC Android App

[Github Repo](#) 

- Collaborated in a team of four to develop a mobile app that simplifies the PC building process for beginners, featuring intuitive navigation and polished design.
- Implemented firestore database, secure image storage, and oversaw front-end development.
- Tools Used: Kotlin, Figma, Firebase, Youtube API, ML Kit (Image Segmentation)

### ESG Analysis Tool

[Github Repo](#) 

- Developed an interactive **Shiny dashboard** for ESG investors to visualize corporate sustainability performance, allowing users to filter companies by ESG sector, rating levels (AAA-C) and score distributions.
- Tools Used: R, Plotly, ggplot2, DT, dplyr