

# Vrishank Paladugu

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## EDUCATION

### UNIVERSITY OF WISCONSIN - MADISON

*Bachelor of Science in Computer Science & Bachelor of Science in Data Science*

Madison, WI  
Expected May 2025

- **GPA:** 3.91 / 4.00 | Dean's List

#### RELEVANT COURSES:

Java Programming and Data Structures, Data Science with Python, Machine Organization, Computer Engineering, Linear Algebra, Discrete Math, Algorithms, Artificial Intelligence, Operating Systems, Compiler Design, User Interfaces with React and React Native

## EXPERIENCES

### AUTOMATION ENGINEER INTERN

#### Safety National

Madison, WI  
May 2024 – August 2024

- Developed and implemented automated scripts to replace manual tasks, reducing completion time by up to 55%
- Reduced overhead by 20% by engineering robust and reusable automation frameworks using Selenium and Java
- Successfully published and integrated finalized automation scripts onto Jenkins production servers, ensuring they run in perpetuity
- Presented work to IT department and other key stakeholders, effectively communicating the impact and benefits of the work

### INTRODUCTION TO DATA SCIENCE – PEER MENTOR

#### University of Wisconsin - Madison

Madison, WI  
May 2023 - Present

- Facilitated in-class activities and discussions, including one on one office hours to offer guidance on topics such as machine learning
- Fostered an engaging and interactive learning environment to promote students' understanding of data science concepts. \
- Spearheaded efforts to make more personal and interesting projects, increasing student satisfaction by 10%

## ACTIVITIES

### SPORTS ANALYTICS CLUB

#### Founding Member– University of Wisconsin - Madison

Madison, WI  
September 2023 - Present

- Developed and implemented regression models to predict batting average vs pitch type
- Participated in discussions and workshops with analysts across many sports leagues to understand the benefits of their works in keeping players safe.
- Increased recruitment by 40% by attending outreach programs and networking with staff in the Data Science Department

## PROJECTS

### CAPSTONE PROJECT

#### PBS Wisconsin

Madison, WI  
September 2024 – December 2024

- Collaborated on developing an AR application to enhance user engagement through immersive historical site visualization.
- Followed Design Thinking philosophy by developing prototypes using Figma and interviewing target demographics for suggestions
- Coordinated efforts using Agile methodologies, Jira, and Scrum to ensure timely and efficient project delivery.
- Constructed front-end functionality using React and Mind AR to provide a seamless and interactive user experience.

### JAVA POKER LIBRARY

- Developed a Java Poker Library capable of accurately determining the winning hand from a given set of cards using advanced hand-ranking algorithms.
- Implemented efficient simulation processes to calculate the probability of a player's hand winning against other opponents, aiding in game analysis and strategy development
- Published the library on GitHub, enabling developers to build and develop applications using this library to help foster new strategies

### PERSONAL WEBSITE

November 2021 - Present

- Designed and programmed a website from scratch using PHP and SQL with CSS and Bootstrap for the frontend, with functional UI scaling on mobile and desktop.
- Reduced load times by 25% by employing CDN networks and custom JavaScript image delivery software
- Used state of the art hashing and password storage to make a highly secure login page as well as a fully functioning blog
- Provided the entire source code for the website on GitHub to allow other developers to build or inspire their apps

## SKILLS & INTERESTS

**Skills:** Python (pandas, NumPy, scikit-learn, Matplotlib), Java (Selenium), SQL, PHP, HTML5, Excel, Git, Linux, Jira, Agile

**Interests:** Movies, Fitness, Reading, Cooking, Traveling, TV Shows, Music, Film Photography