

# 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:** 3.92 / 4.00 | Dean's List

### RELEVANT COURSES:

Java Programming and Data Structures, Data Science with Python, Machine Organization, Introduction to Computer Engineering, Linear Algebra, Introduction to Discrete Math, Introduction to Algorithms, Introduction to Artificial Intelligence, Operating Systems

## 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.
- Help grade assignments and provide constructive feedback to students, encouraging their growth.
- Spearheaded efforts to make more personal and interesting projects, increasing student satisfaction by 10%

## ACTIVITIES

### DATA SCIENCE CLUB

Active Member– University of Wisconsin – Madison

Madison, WI  
Jan 2022 - Present

- Attended weekly meetings to collaborate on personal data science projects, while also tutoring those who need help in class
- Participated in a variety of outreach programs to allow others to develop the same passion for Data Science that I have

### 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

### JAVA POKER LIBRARY

March 2023

- 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, SQL, PHP, HTML5, PowerPoint, Excel, Git, Linux

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