Kushal Rao

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EDUCATION

University of Wisconsin-Madison

Madison, WI

Bachelor of Science May 2027

Majors: Computer Science | Electrical Engineering

GPA: 4.0 | Dean's List **EXPERIENCE**

Undergraduate Research Assistant

Madison, WI

Jexpresso developer

February 2025 - Present

• Works with a premade Julia script that renders atmospheric conditions to adapt the script to run with JACC.jl on multiple GPUs

• Collaborates with the team to enhance atmospheric rendering through advancements in the Discretized Galerkin method

Undergraduate Research Assistant

Madison, WI

Münchmeyer Cosmology Group, Department of Computational & Theoretical Cosmology

October 2024 - April 2025

- Evaluates the performance and accuracy of Large Language Models (LLMs) in the field of research-level astrophysics
- Develops a Gradio web page displaying the problem set utilizing MathJax and expanding of the dataset by hundreds of problems

Badger Consulting Madison, WI

Analyst

September 2024 - December 2024

- Selected as one of 25 analysts from 150+ prospective applicants to join Badger Consulting as a freshman
- Provided Pro Bono consulting services to a craft based company in Upper East side Manhattan to increase revenue by 4x
- Performed 20+ hours of market research to develop an industry-competitive analysis leading to strategic client recommendations
 Project Manager

 December 2024 Present
- Leads a group of 10 to offer tailored recommendations to a local sportswear company in Madison acting as a professional liaison
- Actively increases revenue to meet the clients combating industrial trends by diversifying store products

PROJECTS

NFL Prediction Model for the 2023-24 Season

Portland, OR

Model

September 2023 - January 2024

- Statistically tested accuracy of ESPN predictions (~52%) and documented results for the International Baccalaureate program
- Enhanced the model with additional factors such as quarterback performance and turnovers to beat ESPN's 52% figure by $\sim 5\%$

Glioma Signaling Research

Portland, OR

Website

July 2023 - October 2024

- Researched and authored a paper discussing the response of the immune system to Glioma, a specific brain or spine tumor
- Created a website to summarize the workings of Glioma signaling in the immune system for public reference

LEADERSHIP AND INVOLVEMENT

Proctor and Gamble Case Competition

Madison, WI

Competitor

November 2024

- Placed top 10 in the case competition, working with 4 teammates to propose a new product to solve a customer retention issue
- Utilized multiple research methods to learn how to propose new products and calculate the expected size of market

Sunset Varsity Tennis

Portland, OR

Portland, OR

Captain

December 2022 - June 2024

- Led practices, organized drills, and motivated 30 teammates to improve performance, leading to back to back podium placements
- Coordinated team logistics for matches, including transportation, player lineups, equipment and match schedules

Individual Performance

September 2020 - June 2024

Qualified for State tournament each year placing as a semi-finalist and a bronze medalist contributing to the team success

Sunset Cares

September 2022 - June 2024

- Managed club over 60 members, raising money for foster children in the Portland Metro area, overseeing \$10,000 in funds
- Campaigned and ran the club's most successful fundraiser a week-long door-to-door fundraising event, raising \$2000

SKILLS

President

- Java, Python, C++, Bash, HTML, CSS, Pandas, PyTorch, Julia, OpenAI API, Interpersonal Communication, Analytical Thinking

COURSES TAKEN

- Data Structures & Algorithms, C++, Java, Linear Algebra, Discrete Mathematics, Multivariable Calculus, General Physics

INTERESTS

- Reading, Tennis, Indian Cultural Festivities, NFL, Portland Trail Blazers, Basketball, Swimming, Crosswords