

# Ayush Jadhav

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## EDUCATION

University of Wisconsin-Madison

B.S Computer Engineering and Computer Sciences, May 2025 | Minors: Data Analytics, Leadership Certificate

Certifications: Google IT Automation with Python, Machine Learning Specialization, IBM Quantum Learning

## ENGINEERING EXPERIENCE

WEC Energy Group, Milwaukee Wisconsin

Software Developer Intern, May 2023 - Present

- Developed and implemented innovative software solutions for the PCAD system, utilizing SQL, C#, and databases, to redesign backend processes, leading to a 20% increase in system efficiency and user satisfaction.
- Pioneered the creation of a dynamic web-based platform for real-time tracking of electric and gas outages using HTML, CSS, and JavaScript frameworks with external APIs resulting in improved customer service and operational response times.
- Played a key role in modernizing legacy server systems, migrating to cloud-based architectures, and optimizing legacy code. Collaborated with cross-functional teams in business analysis to identify technical requirements and reduced system downtime by 15%.
- Worked within an Agile framework, participating in sprint planning, conducting peer code reviews, and delivering solutions in a CI/CD pipeline

Asian Paints, Mumbai India

Software Developer Intern, June -August 2022

- Developed groundbreaking 3D rendering software for interior design by integrating various systems, including SolidWorks, enhancing the design process and customer visualization experience. Assisted in the development of a user feedback system.
- Conducted extensive software testing and optimization ensuring compliance with the highest industry standards and contributing to a 15% improvement in software performance and reliability.

Formula SAE, UW-Madison

Firmware Developer, January 2022 - Present

- Spearheaded developing and optimizing advanced embedded software for Formula SAE's vehicle steering wheel controls and the Electronic Control Unit (ECU), utilizing C and microcontroller programming to enhance vehicle handling and response, integrating sensors and actuators for real-time data processing and control.
- Innovated the Transmission Control Module's (TCM) shift control logic using Python, significantly enhancing gear transition efficiency and acceleration. Developed predictive algorithms contributing to a 10% improvement in vehicle performance.
- Implemented a data acquisition and telemetry system, implementing software for the real-time monitoring of vehicle dynamics and engine parameters to provide accurate data for analysis and optimization of vehicle performance.

## WORK EXPERIENCE

Associated Students of Madison, UW-Madison

Internal Affairs Chair, Engineering Representative, March 2023 – Present

- Actively represent the student body, playing a pivotal role in shaping policies that directly impact the student community. Collaborate closely with the Dean of Engineering and other faculty, liaising between students and administration.

Bradley Learning Community, UW- Madison

Lead Peer Mentor, March 2023 – May 2024

- Oversee the Peer Mentor Program at the Bradley Learning Community providing leadership and guidance to a team of 13 mentors, involving recruiting, training, and supervising peers, ensuring they are well-equipped to support first-year students.

## PROJECTS

Image Classification with Convolution Neural Networks

- Build and train a CNN to classify images from a dataset like CIFAR-10

Natural Language Processing Chatbot

- Develop a Chatbot using sequence-to-sequence models and transformers like GPT

Multiplayer Whack-a-Mole Game (Microcontroller-Based)

- Innovatively transformed the classic arcade game "Whack-a-Mole" into an interactive, multiplayer video game using C

## SKILLS

**Languages:** Java, Python, JavaScript, CSS, SQL, Verilog, C, React, HTML | **Prototyping:** SolidWorks, AutoCAD, 3-D Printing