

# Raaghav Pillai

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## Education

**University of Illinois at Urbana Champaign**, BS in Computer Science and Education August 2024 - May 2027

- GPA: 3.73/4.0
- **Coursework:** Introduction to Computer Science I & II, Calculus 1 & 2, Statistics and Probability I, Linear Algebra
- **MOOCs:** Harvard University's CS50p Introduction to Computer Science using Python
- **Skills:** JavaScript, Python, C, YOLOv5, TensorFlow Lite, Google Firebase, Raspberry Pi, IR sensors, NodeMCU

## Experience

**Internal Project Manager**, Office of Technical Consulting Resources (OTCR) January 2025 – Present

- Leading a 5-member tech initiative, spearheading the revamp of the club's website and optimizing all digital assets to enhance functionality and user engagement.
- Managing a 10-member research initiative, guiding the team in creating high-impact decks on custom GPTs, mockup design platforms, outreach whitepapers, and data analysis methodologies to support project managers in executing their projects effectively.

**Lead Consultant**, Office of Technical Consulting Resources (OTCR) September 2024 – Present

- Distinguished as one of 27 candidates, selected from a highly competitive pool of 290+ applicants
- Collaborated with a leading education technology company based in Santa Clara, California, to enhance advertising strategies and optimize user data collection methods for more personalized ad targeting.
- Enhancing AI capabilities for a top online veterinary platform, leveraging user data to measure and improve business performance.

**Assistant Tutor & Project Manager**, CS124 January 2025 – Present

- Supporting 200 students in CS coursework, improving their problem-solving skills and conceptual understanding through structured tutoring sessions. Guiding students in problem-solving strategies and reinforce foundational computer science principles to improve comprehension and performance.
- Leading a 5-member team, mentoring students in developing their first college-level project, ensuring a structured approach from ideation to completion. Providing technical and strategic guidance, helping students understand project development, execution, and presentation.

## Projects

**NETR** May 2023 - Present

- Developed smart glasses using Raspberry Pi & YOLOv5, achieving 90% object detection accuracy, enabling visually impaired users to navigate environments.
- Engineered a mobile app with TensorFlow Lite, securing 500+ downloads and positive user feedback.
- Tools Used: JavaScript, Python, C, YOLOv5, TensorFlow Lite, ANdroid Studio

## Publications

**Beyond Fact-Checking: Assessing the Social Impact of Misinformation during Hurricanes** Jan 2025 - Present

- Worked with four PhD students to classify social media comments as misinformation and assess their social impact during hurricanes.
- Developed a framework to analyze misinformation's influence on public perception and emergency response.

**People's Perception of AI and its Effects on the Job Market** May 2023 - August 2023

- Conducted independent research on AI's impact on job markets, surveying 150+ participants and analyzing industry trends. Presented findings to faculty and peers, highlighting key economic and workforce implications.