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.