

Aditya Radhakrishnan

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EDUCATION

University of Illinois Urbana-Champaign

Ph.D. Computer Science

May 2030

Advisor: Jim Rehg

Georgia Institute of Technology

B.S. Computer Science, Highest Honors

May 2025

GPA: 3.89/4.0

EXPERIENCE

Carnegie Mellon University | Intern

Sep. 2022 – Apr. 2025

- Introduced novel GAN-based deep learning approach for the first-ever synthesis of cardiac motion from ECG.
- 10-25x cheaper than imaging-derived cardiac motion, yet indistinguishable to experts in visual Turing test.
- 60% reduction in cardiac ultrasounds, 19% more reliable diagnosis for LV dysfunction vs. established standard.
- Synthetic cardiac motion unlocks crucial interpretability absent in prior state-of-the-art approaches.
- First author in publication to *Nature Cardiovascular Research*.

Georgia Institute of Technology | Student Researcher

Apr. 2024 – Mar. 2025

- At PAIR lab, developed geometrically-aware LLM-based reward function design for robotics foundation models.
- Developed and implemented a range of approaches for real-time vision-language object detection and tracking.

Hewlett Packard Enterprise | Intern

May 2023 – Aug. 2023, Jun. 2024 – Aug. 2024

- Architected and built a series of applications and deep learning models to automate the processing of legal text.
- Over \$1 million of direct combined annual savings, previously allocated for a specialized IP legal team.
- At 98%+ accuracy, marked the company's first success; now a trade secret used worldwide as production software.
- Built autonomous, LLM-based pipeline to train specialized, efficient models without extensive human annotation.

Pharmaceutical Startup | Intern

Jun. 2022 – Aug. 2022

- Led the statistical analysis for a clinical trial of a pharmaceutical product aimed to mitigate antibiotic resistance.
- Developed new disease-agnostic severity metrics to compare different drug variants across various illnesses.
- First author in publication to *Infection and Drug Resistance*.

Carnegie Mellon University | Intern

Jul. 2020 – Feb. 2021

- Developed ML models for the first vital sign-based COVID and influenza discriminator, a frontline screening need.
- Models achieved AUC scores of at least 97%+ on external patient sets, demonstrating exceptional reliability.
- Co-author in publication to *npj Digital Medicine*.

ORGANIZATIONS

Coalition Against Computer Programming | Founder, Etceterary, Former President

Dec. 2021 – May 2025

- Founded a student organization for satirical "activism" against programming, attracting hundreds of participants.
- Served as a strategy for charity fundraising, with events raising thousands of dollars to support global health.
- Advised and supported students at other universities across the US in establishing their own chapters.

SELECTED AWARDS

Stanford University: Finalist (top 2% internationally), 2025 Knight-Hennessy Scholars.

American Society of Echocardiography: Finalist (1 of 4 nationally, under 40), 2024 Young Investigator's Award.

SKILLS

Languages: Python, C, Java, HTML, CSS, JavaScript, SQL, PHP

Frameworks/Tools: PyTorch, TensorFlow, scikit-learn, HuggingFace, NumPy, SciPy, pandas, Matplotlib, Flask, Node.js, React