

Aditya Azad

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PUBLICATIONS

- Zhou, Y., Shetye, Y., Super, D., Quang, L., Milzman, J., Azad, A., Dhake, D., Mao, J., Nieto-Randa, C., & Loiano, G. (2025). ARGOS: A Unified Inference Framework for Deploying Decentralized Multi-Robot Collaborative Learning. IEEE International Conference on Robotics and Automation. (Submitted)
- Kiper, B., Dey, N., Azad, A., & Ergon, S. (2024). Evaluating GAN Architectures for Generating Images of Defective Façades. ASCE International Conference on Computing in Civil Engineering.

WORK EXPERIENCE

NYU Agile Robotics And Perception Lab

May 2024 – Present

Researcher

Brooklyn, NY

- A pioneering robotics lab at NYU focusing on UAVs and multi robot collaboration.
- Responsible for creating and maintaining Docker/Singularity images for ROS2 C++ code on drones to optimize deployment processes and ensure consistency in various environments.
- Conducted research on multi-robot collaboration problems to develop efficient robotic systems.

NYU Building Informatics and Visualization Lab

Oct 2023 – May 2024

Researcher

Brooklyn, NY

- Research lab focusing on building informatics and visualization techniques at NYU.
- Annotated over 3000 facade images with various defects and trained DCGAN for data augmentation.
- Fine-tuned Segment Anything Model (SAM) for segmenting defects on facade images.
- Won 3rd Place Prize in NYU Tandon Research Excellence Exhibit 2024.

MindsDB

Oct 2023 – Oct 2023

Open Source Contributor

Remote

- MindsDB is an open-source machine learning platform aimed at simplifying AI integration into applications.
- Contributed 8000+ lines during Hacktoberfest 2023.
- Integrated and wrote tests for eight services, including Pinecone and PyCaret.

Central Road Research Institute

Feb 2023 – Apr 2023

Full Stack Software Engineer

New Delhi, India

- A premier research institute in India focusing on road and transportation infrastructure advancements.
- Designed and built Docker-compatible CRUD application using FastAPI, React, Flask, Nginx, and PostgreSQL for data ingestion and report generation while ensuring high performance and scalability.
- Designed and built another CRUD application for geographical data processing and report generation.

Purdue University

Jan 2022 – Dec 2022

Undergraduate Teaching Assistant

West Lafayette, IN

- Teaching assistant for CS-252 Systems Programming course involving programming linux utilities and software in C.
- Conducted labs, held office hours and graded students for more than 100 hours in total.

Cummins

Jun 2021 – Aug 2021

Software Engineer Intern

Remote

- Cummins is a Fortune 500 company specializing in high-performance engines and power generation systems.
- Created and implemented the developer SDK in Java for a service use within the company.
- Wrote 2000+ words for a policy document for an intern hackathon to integrate DevSecOps into company's workflow.
- Won 3rd Place Prize with a team of 4 other members for the same hackathon.

SKILLS

- **Languages:** Python | SQL | C++ | C | JavaScript | TypeScript | Java
- **Tools:** Flask | Django | FastAPI | React | Docker | Pytorch | PostgreSQL | Linux | ROS2 | Agile

EDUCATION

New York University

Sep 2023 – May 2025

- Masters Computer Science | GPA: **3.74**/4.0

Purdue University

Jan 2019 – Dec 2022

- Bachelors Computer Science, Minor in Business Economics, Certificate in Entrepreneurship | GPA: **3.58**/4.0