

# Aadhya Puttur

A creative hands-on motivated leader and software developer

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## EDUCATION

**Worcester Polytechnic Institute (WPI)**, Worcester, MA  
Bachelor of Science, Computer Science

May 2023

## SKILLS

**Skills:** research, computer vision, GitHub, problem-solving, API documentation, wireframing, mockup UI, user stories, coding standards, integration testing

**Languages:** Python, Java, React, Next.js, PyTorch, C++, Javafx, Javascript, Matlab, SQL

**Tools:** Jira, Git, OpenCV, Docker, Linux, Agile Methodology, AWS, Prototyping, Scrum, Figma

**Related Coursework:** Computer Vision (graduate), Algorithms: Design And Analysis (graduate), Machine Learning, Software Engineering, Accelerated Object-Oriented Design Concepts, Mobile Ubiquitous Computing

## PROFESSIONAL EXPERIENCE

**Autonomy Engineer Intern - Skydio**, Boston, MA

June 2023- Sept 2023

- Launched MAVLINK System error sensors communication on Skydio X2 drones to assist the drone in going through flight phases and communicating necessary errors
- Launched a Skydio skill through the development of the max endurance skill using Skydio API

**Research Technical Intern - MIT Lincoln Laboratory**, Lexington, MA

June 2022- August 2022

- Used tangent plane of hole boundary points to fill 290 holes in a 3D point cloud in 920 milliseconds

**Research Technical Intern - MIT Lincoln Laboratory**, Lexington, MA

May 2021- August 2021

- Assembled a coffee can radar and implemented a method to properly transfer it to work with the Arduino

**Research Technical Intern - Raytheon BBN Technologies**, Cambridge, MA

May 2020 - August 2020

- Created a task that is part of a hierarchical task network and tested swarms of drones in simulation

**Software Engineering Intern - Raytheon BBN Technologies**, Cambridge, MA

June 2019 - August 2019

- Created a communication network between Skydio's R1 drone with an unidentified drone using TCP

## PROJECTS

**Researcher, Quadruped Robot - WPI Major Qualifying Project**

Aug 2022 - March 2023

- Created a 2D occupancy map using calibrating real sense cameras to achieve the depth of the environment

**Software Lead - WPI Mass General Brigham Hospital**

March 2022 -April 2022

- Led the development of 50 classes and 6 subsystems, as part of a 10 personal, Agile Scrum team for a full-stack Java application for employees of Mass General Brigham Hospital

**SfM (Structure from Motion) and NeRF (Neural Radiance Fields) - Computer Vision**

Nov 2022

- Minimized error using classical SfM technique and implemented NeRF

**FaceSwap - Computer Vision**

Oct 2022

- Successfully created Face Swap by utilizing Triangulation and Thin Plate Spline

**Edge Detection and Image Filtering - Computer Vision**

Sept 2022

- Implemented PB boundary detection algorithm by creating image processing tools: using Pytorch

**Panorama Stitching - Computer Vision**

Sept 2022

- Implemented feature matching and RANSAC algorithm and calculated homography between two images

**Camera Calibration - Computer Vision**

Sept 2022

- Optimized camera parameters by reducing reprojection error by 11%

**UI/UX Research Assistant - WPI**

July 2022 - Aug 2022

- Designed the UI to visually demonstrate natural language processing in a digestible manner

**Hackathon Winner - WPI COVID Innovation Challenge**, Spectrum

June 26, 2020

- Prototyped a COVID-19 PPE mask in three days for the challenge that uses UV light to kill germs.

## INTERPERSONAL SKILLS

**Co-Captain/Founder Rangeela BollywoodFusion Dance Team - WPI**

Aug 2021 - June 2023

**Resident Advisor - WPI**

Aug 2020 - June 2023

**TEDXYouth Finalist - Beacon Street, Boston**

November 2018

**MAHacks Organizer - Boston**

March 2018 - June 2019