

Aadhya Puttur

Hands-on experience in project management with a background in software engineering

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EDUCATION

Worcester Polytechnic Institute

BACHELOR'S, COMPUTER SCIENCE

May 2023

SKILLS

Skills: Roadmap Planning & Execution, Stakeholder Engagement & Requirement Gathering, Agile Project Management, Cross-Functional Collaboration, Data-Driven Decision Making, Python, Java, React Native, C, C++

PROFESSIONAL EXPERIENCE

Anduril

Mission Software Engineer, Air Defense

Costa Mesa, CA, USA

April 2024 - Present

- Led the development and deployment of a new sensor integration system, improving detection speed by 60% and increasing the number of detected drones by 50%, while aligning solutions with military client operational needs.
- Collaborated with cross-functional teams to analyze system performance, running tests at real classified military installations to optimize defense capabilities.
- Developed an automated system to migrate computer vision models for 70% of Anduril's product lines from a deprecated cloud platform to a new one, enabling 60% of internal teams to continue seamless usage.
- Acted as the on-call specialist for Air Defense Systems, ensuring 99% availability and resolving issues within an average of 5 minutes during classified tests, strengthening client relationships.

Skydio

Autonomy Engineer Intern

Boston, MA, USA

July 2023 - September 2023

- Delivered real-time error-sensing and communication features for Skydio X2 drones, reducing pilot errors by 20% and improving safety.
- Defined and developed the 'Max Endurance' feature, optimizing drone energy consumption by 18%, leading to a 15% increase in flight time and enhancing product performance based on client feedback

MIT Lincoln Laboratory

Research Technical Intern

Lexington, MA, USA

July 2022 - August 2022

- Enhanced airborne LiDAR data accuracy by creating algorithms to predict and fill missing data points, increasing data completion by over 60%.
- Conducted system performance analysis, reducing processing time by 83.7%, and collaborated with stakeholders to integrate feedback into solution improvements.

Research Technical Intern

July 2022 - August 2022

- Optimized Arduino MKRZero communication speed, reducing serial data transfer time by 20 ms through code efficiency improvements.
- Developed radar technology for motion detection and collaborated with teams to troubleshoot, document, and propose alternative communication protocols, enhancing data transfer consistency.

Raytheon BBN Technologies

Software Engineering Intern

Cambridge, MA, USA

May 2020 - August 2020

- Developed a robust communication system between a hierarchical task network (HTN) and MySQL databases to optimize drone swarm operations.
- Coordinated with teams to ensure smooth data exchange and execution, utilizing Docker for containerized solutions.

Research Technical Intern

July 2019 - August 2019

- Built a communication network between Skydio's R1 drone and another drone using TCP connections and multithreading in Java, ensuring effective communication between the devices.
- Gained expertise in Skydio's API to transmit commands and control the drone's operations, contributing to the development of more reliable and agile drone technology.

PROJECTS & OUTSIDE EXPERIENCE

Bipedal Quadruped Robot

Worcester, MA, USA

WPI Major Qualifying Project

August 2022 - March 2023

- Managed a team of four engineers as the Computer Vision Lead of 12 Degrees of Freedom Quadruped Robot, implementing algorithms for obstacle detection and target tracking.
- Ensured successful product delivery while adhering to project timelines and requirement while collaborating with teammates.

WPI Mass General Brigham Hospital

Worcester, MA, USA

Software Lead

March 2022 - May 2022

- Led the development of a 20,000-line full-stack application as part of a 10-person Agile team, overseeing both front-end and back-end integration.
- Reorganized the team's workflow and adopted Agile methodologies, ensuring successful iteration cycles and timely feature delivery.

Spectrum (WPI COVID Innovation Challenge)

Remote

Hackathon Winner

July 2020 - July 2020

- Designed and prototyped a UV-enabled PPE mask to kill germs during the COVID-19 pandemic, within a three-day sprint.

Computer Vision Graduate Course

Worcester, MA, USA

Computer Vision Graduate Course

October 2022 - October 2022

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

Edge Detection And Image Filtering

Worcester, MA, USA

Computer Vision Graduate Course

October 2022 - October 2022

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

Panorama Stitching

Worcester, MA, USA

Computer Vision Graduate Course

October 2022 - October 2022

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

Camera Calibration

Worcester, MA, USA

Computer Vision Graduate Course

October 2022 - October 2022

- Optimized camera parameters by reducing reprojection error by 11%

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