

# Ananth Ram Tekkalakota

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## EDUCATION

### University of Texas at Dallas

*Bachelor of Science, Computer Science*

May 2026

### Relevant Course work

Data Structures and Algorithms

Computer Architecture

Probability and Statistics

Advanced Algorithms Design and Analysis

System Programming and UNIX

Software Engineering

Artificial Intelligence

Intro to Machine Learning

## WORK EXPERIENCE

### Spark My Sport

*Full Stack Developer Intern*

Jan 2024 - Mar 2024

*Richardson, Texas*

- Developed a **Typescript** program to convert spreadsheet data into JSON files, utilizing **object-oriented programming techniques** to enhance data interoperability and accessibility.
- Engineered a system using **Next.js** and **JavaScript** to visually display JSON data, facilitating real-time data interpretation and decision-making.
- Worked on **APIs** to pull data and videos from the backend, improving the search algorithm efficiency while documenting code in-line for clarity and future reference.

### AIS

*Team Member*

Feb 2023 - Apr 2023

*Richardson, Texas*

- Developed a food-scanning AI system using **Python's OpenCV** library, improving accuracy in food recognition
- Led project life-cycle management, fostering a collaborative team culture and promoting effective communication.
- Devised strategic solutions to optimize the local **OpenCV** model, enhancing performance and reducing processing time

### EPICS

*Back-end Developer*

Jan 2023 - May 2023

*Richardson, Texas*

- Led implementation of **Next.js**, learning the framework for back end development, and contributed significantly to building the back end using Prisma for efficient data management in the EPICS project.
- Developed and optimized **APIs**, ensuring seamless communication between front-end and back-end components, which improved data exchange efficiency and user experience
- Collaborated in a cross-functional team, rapidly acquiring skills, problem-solving, and contributing to the successful completion of the EPICS course project.

### ICode

*Lab Mentor*

Mar 2022 - Feb 2023

*Frisco, Texas*

- Developed and executed engaging STEM curriculum for students, fostering hands-on learning in coding, robotics, and other subjects while managing projects and events, and maintained open communication with parents while provided personalized support.
- Recognized for contributions to technology integration and received positive feedback for creating a dynamic and inclusive learning environment.

## PROJECTS

### Object Segmentation App

Jun 2024

- Built a web application to detect and segment objects in images, allowing users to upload images and download individual object images.
- Utilized **OpenCV** for image processing and contour detection, implemented RESTful APIs with Flask, and integrated with Next.js for the frontend.

### MedAI

Aug 2023

- Developed an innovative solution for addressing delayed emergency response times in densely populated cities.
- Utilized Flutter for front-end design, integrating Open Ai's GPT and DALL-E models to generate real-time responses to 911 calls.

## SKILLS

- Python, Java, C++, HTML/CSS, JavaScript, MySQL, Dart, Flutter, React, Next.js, OpenCV, APIs, GitHub, HTML, Object oriented programming