

# Madhav Malladi

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## EDUCATION

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### Rutgers University-New Brunswick

New Brunswick, New Jersey

Bachelor of Science (B.S.) in Computer Science

Expected Graduation, May 2027

- o Relevant Coursework: Data Structures (Java), Principles of Computer Science, Introductory Linear Algebra
- o Activities and Societies: VEXU Robotics (Programming Team), Rutgers IEEE

### Dougherty Valley High School

San Ramon, California

High School Diploma

Graduated June 2024

- o Relevant Coursework: AP Computer Science A (5), AP Calculus AB(5) & BC(5), AP Statistics (5), AP Physics C: Mechanics (4), VS.Net(C#) Programming
- o 12 AP Courses
  - o 2x AP Scholar with Distinction (2023 & 2024)

### De Anza College

Cupertino, California (Online)

Dual Enrollment Coursework

March 2023 - March 2024

- o Coursework: Beginning Programming Methodologies in C++, Python Programming, Introduction to Data Science, iOS Development

## EXPERIENCE

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### FIRST Robotics Team #9125

Livermore, California

Lead Software Programmer and Team Technician

Sep 2022 – Apr 2024

- Coded my team's robot using Java object-oriented programming, utilizing numerous libraries including REV Robotics and Limelight cameras. Utilized machine learning algorithms for object detection and camera vision.
- In charge of making quick modifications to our code based on the team gameplan
  - o Strategized with software leads of other teams to develop new code for testing
- Managed the development of my team's code over a 3-month span
- Team Qualified for 2023 World Championships
  - o Winners of the 'Rookie Highest Seed' award at Milstein Division
- Skills/Tools: Java, Machine Learning, Computer Vision, Visual Studio Code, Git, Teamwork/Collaboration

### Polygence

San Ramon, California (Remote)

Student Researcher

July 2023 – July 2024

- Completed a machine-learning and statistical analysis research project
- Coded a machine-learning model to predict the All-NBA teams of a season given all players' statistics for that season
- Researched various activation functions and their applications and data science libraries
- Skills/Tools: Python (NumPy, Pandas, Matplotlib), Jupyter Notebook, Data Analysis, Machine Learning

## PROJECTS

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### ReLU Activation Function to Predict All-NBA Teams ([Medium Article](#) / [GitHub](#))

July 2023 – July 2024

- Coded a ReLU activation function to predict the All-NBA teams given all players' statistics for a given season.
- 98.94% Test Accuracy
- Skills/Tools: Python (NumPy, Pandas, Matplotlib), Jupyter Notebook, Data Analysis, Machine Learning

### Personal Portfolio Website ([GitHub](#))

June 2024

- <https://madhvmalladi.github.io/Personal-Portfolio/>
- Skills/Tools: HTML, CSS, JavaScript, Visual Studio Code

## SKILLS

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**Programming:** Java, Python, C++, C#, Swift, HTML, CSS, JavaScript

**Tools:** Git, Jupyter Notebook, Visual Studio Code