

Maanit Malhan

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EDUCATION

University of Connecticut

Storrs, CT, USA

B.S in Computer Science, Concentration in AI/Computational Data Analytics

December 2025(Expected)

- Coursework includes CPU Architecture and Assembly Language, Statistics, Object-Oriented Programming I and II, Cybersecurity, Data Structures and Algorithms, Algorithms and Complexity, and Discrete Math

TECHNICAL SKILLS

Programming Languages: Python, C, C++, Java, HTML/CSS, JavaScript, Bash, Object-Oriented programming

Libraries and Tools: ReactJS, Plotly, Pandas, Numpy, OpenCV, YOLOv8, Git/Github, ZSH, PowerShell, Linux/Unix, WordPress, Microsoft Office Suite, Power Bi, LaTeX

WORK EXPERIENCE

FROST Robotics

Financial Officer/Team member

January 2024 - Present

- Helping fundraise by networking with companies and individuals and allocating funds as required for team projects.
- Developing a state-of-the-art Full-Body Spinning Combat Robot, gaining expertise in electronics, design, and overall functionality implementation using C and C++.

Department of Energy, Southern New England Industrial Assessment Center

Software developer/Student assessor

September 2023 - Present

- Developing a web application featuring auto-fill functionality, dynamically populating fields based on previously entered data associated with specific codes.
- Invented powerful software using Python to effortlessly retrieve, manipulate, and visualize database data, automating value extraction, document presentation, and calculations.
- Used HTML and CSS to create pages on and manage our website, iac.uconn.edu

University of Connecticut FSAE

Team member(Data acquisition sub-team)

August 2023 - Present

- As a UConn FSAE Data Acquisition (DAQ) team member, I utilized electrical skills to set up telemetry sensors and analyzed recorded data with Python to enhance our car's performance.

University High School of Science and Engineering

Teaching Assistant

August 2022 - June 2023

- Instructed a class of 25 students in PLTW Principles of Engineering. Offering one-on-one and small-group student assistance during class.
- Taught students the applications of robotics, simple machines, compound machines, circuits, and programming.

FIRST Robotics Team - Team 1991

Captain and Sub-team Lead

August 2019 - June 2023

- Led a team of 50 Students split between Corporate, Mechanical, Design, Programming and Electrical Sub-teams.
- Utilized Java programming and fundamental electrical skills to wire and program all functions of an award-winning robot.

FIRST Lego League - Team 55523

Lead Student Mentor

August 2022 - May 2023

- Volunteered to Mentor eight members in programming LEGO robots to complete missions on the competition field, teaching basic coding principles and best practices in programming.

PROJECTS

- **T.A.L.L language-learning**, Under development is a demo—ready software that uses AI to help students learn languages. Students trace letters or words on a canvas, and the work is checked using AI. Helps students improve vocabulary, letter recognition, and motor skill development.
- **RoboSight**, Initially developed as a demonstration of vision software. Updated to integrate the vision software with the robot's hardware devices and sensors for real-world scenarios like auto-aim/auto-shooting and object tracking with more accuracy and control than the built-in software.