

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, Cybersecurity, Data Structures and Algorithms, Algorithms and Complexity, Systems Programming.

TECHNICAL SKILLS

Programming Languages: Python, C, C++ , Java, HTML/CSS, JavaScript, Bash, Matlab, SQL, Git/Github

Libraries and Tools: ReactJS, NodeJS/Express, MongoDB, Plotly, Pandas, Numpy, ZSH, PowerShell, Linux/Unix, WordPress, Microsoft Office Suite, Power Bi, LaTeX, matplotlib, Docker, Jupyter Notebooks

WORK EXPERIENCE

LINKs(Laboratory of Intelligent Networked Systems and Robotics) Lab

Undergraduate Researcher

September 2024 - Present

- Starting an Independent Study about AI in Robotics. Relating to Vision systems in robotics.

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 automated vision-based battle 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 and deploying a **MERN stack** web application that is a hub for the company with integrated internal tools and user authentication. Utilized **Docker** for seamless deployment, effectively streamlining training processes for new employees and automating routine tasks for experienced staff.
- Invented powerful software using **Python** to effortlessly complete **data modeling and data management**. It retrieves, manipulates, and visualizes database data, automating value extraction, document presentation, and calculations.
- Used **HTML, CSS and PowerBi** to create pages on and manage our website, iac.uconn.edu

University of Connecticut FSAE

Team member(Data acquisition and IC powertrain sub-team)

August 2023 - Present

- Utilized electrical skills to set up telemetry sensors. Performed **data acquisition and statistical analyses** on vehicle test data. To create actionable items that improve vehicle performance meaningfully.
- Communicate insights to subteam leaders to increase team knowledge and improve the performance of the vehicle.

PROJECTS

- **T.A.L.L language-learning**, 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**, Vision software integrated with a 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 using **OpenCV**.