Maanit Malhan

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EDUCATION

University of Connecticut <div align="right">Storrs, CT, USA</div>

B.S in Computer Science, Concentration in AI/Computational Data Analytics <div align="right">*December 2025*</div>

- **Coursework includes:** CPU Architecture and Assembly Language, Cybersecurity, Data Structures and Algorithms, Algorithms and Complexity, Systems Programming, Object-Oriented Programming, C++ Programming
- **Graduate Level:** Big Data Analytics

TECHNICAL SKILLS

Programming Languages: Python, C, C++, Java, HTML/CSS, JavaScript, SQL
Technologies: React, MongoDB, Plotly, Pandas, Numpy, Power Bi, Matplotlib, Docker, Git/Github, OpenCV, Linux, scikit-learn, TensorFlow
Other: Project management, Agile, Jira

EXPERIENCE

Department of Energy Southern New England Industrial Assessment Center

Software Engineer <div align="right">*September 2023 - Present*</div>

- Developing a **full stack** web application that is used for the company with custom internal tools significantly increasing employee efficiency. Utilized **Docker** for deployment on server.
- Developed **data analysis** software using **Python** to automate **data modeling and data management.** The software automatically manipulates and visualizes data, saving employee time by 85%.

University of Connecticut, LINKs Lab

Undergraduate Machine Learning Researcher <div align="right">*September 2024 - Present*</div>

- Conducting a comprehensive **literature review on ML and AI** applications for path planning in robotics.
- Studying and creating new Path planning and navigation systems with **ML models**, specifically using deep reinforcement learning Algorithms.

NHRL Team - FROST Robotics – Project URL

Team Leader <div align="right">*January 2024 - Present*</div>

- **Managing a team of 6** in developing the hardware, electrical systems, and software components of battle robots, utilizing **Jira** for efficient project coordination and task tracking.
- Developing autonomous battle robots that compete in the NHRL, using expertise in computer vision, system design and **C, C++ and Python**.

University of Connecticut FSAE

Data Analyst – Data Acquisition Sub-Team <div align="right">*August 2023 - October 2024*</div>

- **Designed and implemented** data acquisition systems to log vehicle performance metrics during testing sessions.
- Performed **statistical analyses using Python** on collected data to diagnose performance bottlenecks, creating data-driven vehicle optimization for reducing FSAE competition track times.

PROJECTS

Husky Dining(Senior Design Project) – Project URL <div align="right">**Team Leader**</div>

- Leading a team of 5 students in a year-long project, managing the project and team using tools like **Jira**.
- Designing and creating a full stack web application. Contributing to development efforts, on front-end and back-end components using **SQL and JavaScript**.

T.A.L.L language-learning <div align="right">**HackRPI Project**</div>

- Created an interactive Software canvas where students trace letters and words, leveraging **OpenCV** for real-time handwriting recognition and feedback.
- Students can improve in vocabulary, letter recognition, and motor skills through a gamified learning experience.