

# Meena Nagarajan

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## EXPERIENCE

### Siemens Digital Industries Software, Huntsville AL — Software Engineering Intern

Jan 2023 - PRESENT

- Orchestrated automation of performance tests, managing 600 concurrent client applications leading to a **30%** increase in efficiency.
- Engineered a Python-based filter, driving a **35%** boost in data-driven decision-making by extracting insights from server deployments and load generation.
- Devised an innovative Python script automating load generator management, achieving a **40%** increase in load allocation efficiency.

### Robotics and Intelligent Machines Center, Atlanta GA — Undergraduate Researcher

Jan 2022 - May 2023

- Evaluated and enhanced a cutting-edge autonomous moored profiler, pivotal in assessing Prince William Sound's recovery.
- Leveraged advanced CNNs such as InceptionV3 and Xception to process and discern underwater images of plankton and salmon.
- Achieved an impressive **98.87%** reduction in training time, optimizing efficiency from 6 hours to a mere 4 minutes which enabled seamless adaptation of the model to accommodate custom data.

## PROJECTS

### VR Training for self-driving cars — (Unity, SteamVR, C#)

- Integrated Automated Driver's Assistive System controls into Unity's 2018 Toyota Camry model for VR training using Unity, SteamVR, and C#.
- Designed seven VR training tasks, optimized for VIVE Pro, with iterative enhancements for an engaging learning experience.

### Heart Disease Predictor — (Python)

- Created Python-based heart disease prediction model, identifying key risk factors and patterns through data analysis, enhancing diagnostics.
- Applied Gaussian Mixture Model and Bayes Classification techniques for precise predictions, contributing to healthcare data analysis.

### MeeChat — (Python, HTML, CSS, JavaScript)

- Designed and developed a chatbot, enhancing user engagement through interactive, automated responses.
- Improved operational efficiency by reducing response time and support workload.

## EDUCATION

### Georgia Institute of Technology, Atlanta — M.S. in Computer Science

Focus: Machine Learning  
Graduation: Dec 2024

GPA: N/A

### B.S. in Computer Science

Graduation: Dec 2023

GPA: 3.68

## TECHNICAL STRENGTHS

### Languages

C, C#, C++, Java, Python,  
JavaScript, JSON, HTML/CSS,  
XML, SQL

### Technologies

Jmeter Apache, Unity, React,  
Node.js, TensorFlow, Docker,  
JIRA, MATLAB, Jupyter, GitHub,  
Linux, Windows, Virtual  
Machines

### Skills

Web Design, Object-oriented  
programming, Artificial  
Intelligence, ML, Computer  
Vision, Android App  
Development, DBMS

## SELECTED COURSEWORK

Data Structures and  
Algorithms, Design and  
Analysis of Algorithms, Intro to  
AI, Human-Computer  
Interaction, Automata and  
Complexity, Objects and  
Design, Comp. Organization  
and Programming, Applied  
Combinatorics, Machine  
Learning, Intro to Computer  
Vision