

# Harish Bommakanti

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U.S. Citizen

## Education

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### The University of Texas at Austin

Aug. 2020 – May 2023

*Bachelor of Science in Computer Science*

GPA: 3.81/4.00

Relevant Coursework: Artificial Intelligence, Quantum Computing, Robot Learning, Algorithms, Probability/Statistics, Linear Algebra

## Skills

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**Programming Languages:** Python, Java, C++, C

**Developer Tools:** Linux, Git, Atlassian Suite, CMake

**AI/ML:** Scikit-Learn, PyTorch

## Experience

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### UT Austin Research Labs

Jun. 2019 – Present

*Volunteer Research Assistant*

Austin, TX

- Contributed **Python** tools to analyze/visualize behavioral metrics in a DARPA project that uses AI to classify actors as harmful in simulations.
- Utilized RL algorithms such as PPO in **Python** to provide benchmarks for the Robosuite robotics simulation library.
- Performed hurricane simulations on TACC supercomputers to forecast tidal events such as storm surge.

### Samsung Electronics

May 2022 – Jul. 2022

*Software Engineer Intern*

Austin, TX

- Developed **C++/CMake** tools to query meaningful diagnostics from mobile phone GPU crash reports.
- Optimized the speed and size of the GPU crash reporting system using **Python** and **C**.

### Mythic

May 2021 – Aug. 2021

*Firmware Engineer Intern*

Austin, TX

- Enabled pipelines to expose AI chip statistics such as temperature readings to end-users using **Python** and **C**.
- Collaborated with other software and hardware teams frequently to resolve product specification issues.
- Operated under the **Agile Scrum** methodology and completed 200% of the work assigned for the term.

### UT Austin Department of Computer Science

Jan. 2021 – May 2021

*Undergraduate Teaching Assistant*

Austin, TX

- Guided learning in lecture and office hours for 200 students in Introduction to Python.
- Wrote automated grading software in **Python** to grade student homework submissions.

## Projects

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### Robot Learning Class Projects

Jan. 2021 – May. 2021

- Employed **AI** techniques such as regression and neural networks using **Scikit-Learn** and **PyTorch** to perform robotic tasks in simulation such as selectively picking up objects based on color.

### Weather Prediction

Jun. 2020 – Jul. 2020

- Developed a **Python** CLI program to generate a 48 hour weather forecast given the past 120 hours of data.
- Applied time series modeling to form a temperature curve that accurately reflects past data.

### Robotics Scouting App

Sep. 2019 – Feb. 2020

- Authored a web application to automate data gathering at robotics events using **JavaScript**, **HTML/CSS**, and **Jekyll**.
- Enabled both offline and online data aggregation for 50+ teams per event.