Harish Bommakanti

📞 (510) 737-1976 | 🖂 harish.bommakanti@utexas.edu | 🄏 harishbommakanti.github.io | 🖸 harishbommakanti | **in** harishbommakanti

Education _

University of Texas at Austin

Austin, TX

Bachelor of Science in Computer Science, GPA: 3.84/4.0

May 2024

- Relevant Coursework: Operating Systems, Computer Architecture, Data Structures, Robot Learning, Probability and Statistics, Linear Algebra
- Teaching Assistant: Introduction to Python

Experience _____

Mythic Inc. Austin, TX

Firmware Engineer Intern

May 2021 - Aug. 2021

- Integrated new features and bug fixes to the customer facing Python API and firmware facing C API used to interface with Mythic Intelligence Processing Unit (IPU) chips.
- Routinely collaborated with the AI Solutions and Hardware teams to resolve product specification issues.
- Operated under the Agile Scrum methodology and completed 200% of the Jira tickets assigned for the term.

UT Austin Robot Perception and Learning Lab

Austin, TX

Undergraduate Research Assistant

Oct. 2020 - Jun. 2021

• Tuned the PPO reinforcement learning algorithm in Python to demonstrate the usability of Robosuite, a robotics simulation framework.

NASA Austin, TX

Software Intern Mar. 2018 - Jul. 2018

- Aggregated precipitation data for 100s of Texas locations through National Weather Service REST endpoints with JavaScript to host on a Center for Space Research website.
- · Automated a 10 minute data visualization process in mapping software to run in under 10 seconds in Python.

Projects _____

Y86-64 System Emulator

- Designed a simulator in C capable of executing assembly following Y86-64, a subset of the x86-64 architecture.
- Built a pipelined processor and a 2-level cache memory hierarchy to address realistic time and memory constraints.

Weather Prediction

- Developed a **Python** script 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

- 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.

Activities & Leadership ______

High School FRC Robotics Club

Austin, TX

Software Lead, Electrical Lead, Program Manager

Aug. 2016 - Jul. 2020

- Nominated for the 2018 and 2019 Dean's List Award for recognition of notable dedication and teamwork.
- Awarded the Creativity Award twice at the 2019 District and State Championships for recognition of innovative control systems.
- Selected as Division Quarterfinalists for the 2019 FRC World Championships.

Skills _____

Programming Languages Python, Java, C, JavaScript, HTML/CSS

Developer Tools Git, GitHub, Perforce, Swarm, VS Code, IntelliJ IDEA, Vim, TeX, LaTeX

Languages Fluent in English, Conversational in Telugu

Work Eligibility U.S. Citizen – Eligible to work without restrictions or sponsorship