Harish Bommakanti

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U.S. Citizen

Education

The University of Texas at Austin Aug. 2020 – Present
Bachelor of Science in Computer Science GPA: 3.81/4.00

- Relevant Coursework: Algorithms, Data Structures, Operating Systems, Computer Architecture, Robot Learning, Probability/Statistics, Linear Algebra

Technical Skills

Programming Languages: Python, Java, C, JavaScript, HTML/CSS, x86-64 Assembly
Developer Tools: Linux, Git, GitHub, GitLab, Jira, Confluence, Perforce, Swarm, LaTeX
Machine Learning Frameworks: Scikit-learn, PyTorch, TensorBoard
Web Frameworks: VuePress, Jekyll

Experience

Mythic, Inc. May 2021 – Aug. 2021
Firmware Engineer Intern Austin, TX

- Integrated new features/bug fixes to the customer facing Python API and firmware facing C API, resulting in a more serviceable AI accelerator chip.
- Collaborated with other software and hardware teams frequently to resolve product specification issues.
- Operated under the Agile Scrum methodology and completed 200% of the Jira tickets 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 as a Teaching Assistant.
- Wrote automated grading software in Python to grade student homework submissions.

UT Austin Robot Perception and Learning Lab Oct. 2020 – Jun. 2021
Undergraduate Research Assistant Austin, TX

- Tuned the PPO reinforcement learning algorithm in Python to demonstrate the usability of Robosuite, a robotics simulation framework.
- Levered data science frameworks such as TensorBoard/Matplotlib to exhibit robot movement metrics.

NASA Mar. 2018 – Jul. 2018
Software Intern Austin, TX

- 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

Terminal Shell Aug. 2021 – Sep. 2021

- Built a shell application to process command-line Linux arguments and launch/coordinate processes in C.
- Enabled built-in commands, path variables, file redirection, and concurrent commands.

Weather Prediction Jun. 2020 – Jul. 2020

- 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 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.