Harish Bommakanti

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U.S. Citizen

Education

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, Machine Learning, Algorithms, Probability/Statistics, Linear Algebra

Skills

Programming Languages: Python, Java, C++, C
Developer Tools: Linux, Git, GitHub, GitLab, Gerrit, Atlassian Suite, CMake
AI/ML: Numpy, Pandas, Scipy, Matplotlib, Scikit-Learn, PyTorch

Experience

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

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.