Harish Bommakanti

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Education

University of Texas at Austin Austin, TX

Bachelor of Science in Computer Science · GPA: 3.81 May 2024

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

Skills

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

Experience

Mythic, Inc. Austin, TX

Firmware Engineer Intern May 2021 - Aug. 2021

- 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 Austin, TX

Undergraduate Teaching Assistant Jan. 2021 - May 2021

- 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 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.
- Levered data science frameworks such as TensorBoard/Matplotlib to exhibit robot movement metrics.

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

Terminal Shell

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

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.

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