HARISH BOMMAKANTI

510-737-1976 | harish.bommakanti@utexas.edu | Austin, TX
linkedin.com/in/harishbommakanti | github.com/harishbommakanti | harishbommakanti.github.io

EDUCATION

University of Texas at Austin, Austin, TX   May 2024
Bachelors of Science in Computer Science, Bachelors of Science in Mathematics
- GPA: 4.0
- Relevant Coursework: Data Structures, Discrete Math, Introduction to Probability

Rouse High School, Leander, TX   July 2020
- GPA: 4.0 | Rank: 2/383 | SAT: 1520 (730 English, 790 Math)
- Relevant Coursework: AP Computer Science A, AP Calculus BC, AP Physics C (Mechanics/Electromagnetism)

TECHNICAL SKILLS

- Languages: Java, Python, Javascript, HTML/CSS, LabVIEW
- Software: Git/Github, Linux

EXPERIENCE

Computational Hydraulics Group (CHG) Research Lab at UT Austin, Austin, TX   June 2019
Research Intern
- Ran simulations on TACC supercomputers using software developed by the CHG labs to simulate coastal models.
- Modified/created Python scripts using data science libraries to help visualize ADCIRC results.

NASA STEM Enhancement in Earth Science (SEES) Internship at UT Austin, Austin, TX   July 2018
Intern
- Collected NWS Precipitation Estimation data via REST endpoints with JS frameworks to host on UT Austin's CSR website: agw-prim-green2.csr.utexas.edu/SEES2018/.
- Developed a Python script to automate an extremely lengthy and manual task done by Dr. Porter from UT CSR.

PROJECTS

Redaction Programming Language: redactionpl.netlify.app, github.com/harishbommakanti/Redaction-PL
- Wrote an interpreter in Java for a scripting language with syntax from Java, JavaScript, and Python.
- Redaction demonstrates complicated language design concepts such as scoping and environment chains.

Weather Prediction: github.com/harishbommakanti/Weather-Prediction
- A Python program to generate a 2 day forecast from the current time using time series modeling.

FRC Scouting Application: scouting.rouserobotics.com, github.com/Team6321/Scouting_App
- Created a web app for the robotics team to automate the process of gathering team data at events.
- Technologies used were Javascript, HTML/CSS, and Jekyll.

ACTIVITIES & LEADERSHIP

Rouse Robotics Club, Leander, TX   August 2016 - July 2020
Software/Electrical lead, Program Manager
- Wrote sustainable code and created efficient electrical systems for FRC robots while tutoring new members.

HONORS AND AWARDS

- Robotics team attended FRC World Championships twice in our starting 3 years.
- Nominated for the FRC robotics Dean's List award in 2018/2019 for notable dedication to the team.