# HARISH BOMMAKANTI

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## 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.

**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.

**Image Processor:** github.com/harishbommakanti/image_processor
- Built an image processor in Java which transforms images using operations such as blurring.

## 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.