

# PRESTON HILL

Houston, TX

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Portfolio: <https://chewy441014.github.io/portfolio/>

## SUMMARY

Full Stack Web Developer with a background in Mechanical Engineering and a life-long love of math. Effective at evaluating problems and complex issues to find elegant algorithmic solutions. Known for breaking down problems intuitively and for being well organized and taking initiative.

## TECHNICAL SKILLS

**Languages:** MongoDB, Express, Node.js, React, Javascript, HTML, CSS, Python, Matlab

## PROJECTS

**Park Picker |** <https://github.com/chewy441014/trail-picker> |  
<https://chewy441014.github.io/trail-picker/>

- *This web app helps plan camping trips by connecting user search queries to national parks sorted by distance from user location. Displays directions, weather info and park details for any park selected from the results.*
- *Developed the API calls, and utilities.*
- *Javascript, JQuery, Bulma*

**Tech Blog |** <https://github.com/chewy441014/tech-blog> |  
<https://tech-blog-preston.herokuapp.com/>

- *This forum-style full stack web app allows users to share their thoughts and comments with others easily. Users can create an account, login, make posts and comments and edit posts.*
- *This solo project includes these technologies: JavaScript, Express, Node.js, handlebars, MySQL, Bootstrap*

**Notes Tracker |** <https://github.com/chewy441014/notes-tracker> |  
<https://notes-tracker-preston.herokuapp.com/>

- *View, create and delete notes in this simple web app, hosted on Github and Heroku. This full stack web app uses a JSON file as a lightweight way to store notes.*
- *This solo project includes these technologies: JavaScript, Express, Node.js, Bootstrap,*

## EXPERIENCE

**Robot Technician**  
**Starship Technology**

2022 – 2022  
Houston, TX

*Repaired and maintained the Starship robots at University of Houston and in the greater Texas region. Worked on an international team to detect, understand and resolve electro-mechanical issues and opportunities for improvement.*

- *Improved the robot health of the Houston robots from 75% to 100% four weeks after starting.*
- *Maintained robot health of all robots above 95% for the majority of operating hours.*
- *Re-organized the Houston operations facilities and streamlined numerous day-to-day processes.*

**Service Engineer**

2019 – 2021

**Anton Paar**

Houston, TX

*Repaired, adjusted, calibrated and maintained laboratory equipment manufactured by Anton Paar. Utilized a breadth of knowledge from chemistry and electro-mechanical systems to customer service and technical communication in day to day tasks.*

- *Earned the 'Service Engineer of the Month' award among US Service engineers four times.*
- *Certified for service engineer on five types of lab instruments, spanning food, pharmacy, oil & gas, and manufacturing industries.*

**EDUCATION**

***Boot Camp Certificate:*** *University of Texas, Austin, TX*

A 24-week intensive program focused on gaining technical programming skills in HTML5, CSS3, Javascript, JQuery, Bootstrap, Firebase, Node.js, MySQL, MongoDB, Express, Handelbars.js, and ReactJS.

***Master's Degree of Mechanical Engineering:*** *UCLA, Los Angeles, CA*

***Bachelor's Degree of Mechanical Engineering:*** *Rice University, Houston, TX*