

# RUCHI SHAH

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## Education

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**University of Texas at Austin** B.S. Computer Science, B.S. Mathematics  
Certificate in Applied Statistical Modeling

May 2025

## Relevant Courses and Skills

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- **Courses:** Principles of Machine Learning, Operating Systems, Computer Architecture, Data Structures, Probability and Statistics, Discrete Math, Number Theory, Differential Equations, Linear Algebra
- **Skills:** Java, Python- pandas and scikit-learn, C, C++, MATLAB, HTML, CSS, React, LabVIEW

## Experiences

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**Developmental Intelligence Lab** – *Computational Research Assistant*; Austin, Texas May 2023 - Present

- Create Python and MATLAB scripts for data creation, data processing, and data analysis
- Formulate independent research questions to conduct data analysis and present

**Longhorn Rocketry Association** – *TLO-LabVIEW Sub-team* January 2023 - Present

- Collaborate with LabVIEW members to write and test the LabVIEW program for LRA at Pickle Research Campus

**Texas Convergent**– *AI (Design member), AET (Tech member), IoT (Tech Member)* September 2021- December 2022

- Designed a voice to text app for triaging use in emergency rooms
- Created a mock up for the app using Figma then converted into a front end using React
- Collaborated with product team members to create AB testing forms sent to healthcare professionals
- Created front end for haptic vibration music app using React Native
- Awarded Best Design Spring 2022

**Alpha Math Station**– *Tutor*; Sugar Land, Texas April 2018 - August 2021

- Tutored preschool through high school students in math and English

**NASA**– *Safety Wiki Intern*; Houston, Texas June 2019 - August 2019

- Worked on the ISS' internal wiki to be used within the Safety and Mission Assurance Directorate and the ISS
- Developed templates and pages for the wiki using HTML and CSS
- Presented and explained how to use the wiki and my templates to create new pages in the future.

## Projects

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**Pintos**– *Toy OS* Fall 2022

- Expanded a toy OS to include priority scheduling, argument passing on the stack, system calls for user programs, and virtual memory

**Web Development**– *Personal Website* October 2020

- Programmed a one-page personal website using HTML, CSS, and React

**Model Rocket**– *Intern Space Program: Johnson Space Center* August 2019

- Designed nosecone and launch lugs using AutoCAD as part of the the airframe sub team
- 3D printed nosecone and launch lugs
- Successfully launched and recovered

## Activities

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**Austin Central Library** – *Children's Room and Teen Room Volunteer* November 2022 - Present

**Silk Club** – *Diversity and Inclusion Committee Member, PR Committee Member* January 2022 - Present

**University Treble Chorus** – *Mezzo-Soprano* August 2021 - Present

## ADDITIONAL INFORMATION

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**Languages:** Conversational in Gujarati, Basic Knowledge in Hindi