

Santi Dasari

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EDUCATION

The University of Texas at Austin, Austin, TX

May 2023

Bachelor of Science in Computer Science

Relevant Coursework: Computer Organization and Architecture, Probability and Statistics, Data Structure and Algorithms, Discrete Mathematics

SKILLS

Technical/Computer Skills: Java, C, C++, Swift, HTML/CSS, Python, Git, x86 Assembly

Languages: English, Spanish, Telugu

Other: Figma, Microsoft Office, Adobe Creative Cloud

EXPERIENCE

Freshman Research Initiative, Austin, Texas

Jan 2020 - May 2020

Autonomous Intelligent Robot Stream

- Furthered the research for the 'Scavenger Hunt' problem, where robots can detect the location of objects efficiently in a dynamic environment based on provided probability models
- Developed a new Python search algorithm called the Timed-Bayesian Search that uses a preset time and a 'saved paths' data structure to find an object
- Timed-Bayesian was a more optimized solution from the Bayesian algorithm, and performing close to one of the best searches, Probability- Proximity Search

Texas Convergent, Austin, Texas

Aug 2019 - Dec 2019

Build Team Member on Internet of Things Team

- Developed Android app "SleepSafe" which senses if the user is having a seizure in their sleep and alerts emergency services
- Worked on back-end development with hardware and software by detecting changes in movement to distinguish if a seizure is happening based on difference of motion
- Used Arduino, Python, and Flask
- Won Best Overall Project at Convergent Demo Day

Girls Who Code, Philadelphia, PA

Sep 2017 - Feb 2019

Instructor

- Mentored and taught young girls the basics of code on Scratch, Python, and UI/UX
- Worked to create a creative project each year and received recognition from the national chapter of club

PROJECTS

Y86-64 Machine Simulator

Nov 2020 - Dec 2020

- Implemented a PIPE simulator using C that handled data dependencies and control hazards
- Programmed a set-associative cache to work with PIPE to make reads/writes more efficient

QuickPick: Food & Fun, Co-Founder and Developer

June 2020 - Present

- Created and developed an iOS app that lets users choose constraints to be given a random restaurant to eat from or an indoor/outdoor activity to do
- Front-End: Used Swift/UIKit to make a simple and effective user interface
- Back-End: created randomization of restaurants/places and obtained results using Yelp Fusion API

ACTIVITIES & LEADERSHIP

Tutor, Austin, TX

May 2020 - Present

Sylvan Learning

- Taught students Math and Reading topics from beginner to intermediate levels, and helped prepare for SAT/ACT

Women in Computer Science, Austin, TX

Aug 2019 - Present

Nell Dale Mentor

- Hold monthly meetings, surrounded by strong community of women, and participated in a Hackathon