

# Daksh Dua

dakshdua@cs.utexas.edu | 732-666-7220  
dakshdua.github.io | github.com/dakshdua | linkedin.com/in/dakshdua

## EXPERIENCE

### PEER MENTOR (CS 309) | UNIVERSITY OF TEXAS AT AUSTIN

Jan 2021 - Present | Austin, TX

- Perform TA duties for the Autonomous Robotics FRI stream: assist students during office hours, grade student homeworks, etc.
- Participate in research with the robotics department, continuing work on autonomous delivery system project

### CNS INVENTORS FELLOW | UT AUSTIN

Summer 2020 | Austin, TX

- Worked with Texas Robotics and Good Systems to develop for an autonomous fleet of food delivery robots on the campus of UT Austin
- Used with gRPC in C++, Gazebo and Robot Operating System
- Co-author on paper to be submitted to 2021 AAAI Spring Symposium

### ROBOTICS CAMP COUNSELOR | UT AUSTIN

Summer 2020 | Austin, TX

- Taught high school students C++ and Robot Operating System (ROS)

### CANVASSER | ENVIRONMENT NJ (NJPIRG)

Summer 2018 | New Brunswick, NJ

- Raised money in efforts to ban polystyrene and antibiotic overuse

## LEADERSHIP AND INVOLVEMENT

### SENATE OF COLLEGE COUNCILS

Technology Coordinator | Mar 2020 - Present

Academic Policy At-Large | Nov 2019 - June 2020

- Developed full-stack voting platform solution to be used during organization meetings using Node.js and PostgreSQL
- Spearheaded website modernization and ADA compliance
- Designed and administered a COVID-19 Student Sentiment Survey with 1,400+ respondents on Qualtrics, published a report on the results.

### CODE ORANGE

Volunteer Tutor | Nov 2019 - Mar 2020

- Volunteered to teach students from underserved and underrepresented schools in Austin the basics of Computer Science with Scratch

### FIRST ROBOTICS

Programming Director | Sep 2017 - Jun 2019

FIRST Lego League Jr. Summer Camp Director | Summer 2017, 2018

Mentor for FIRST Lego League team | Sep 2017 - Mar 2018

- Taught 50+ programmers Java, programmed driver and autonomous robot functions (team was second place worldwide)
- Directed a FIRST Lego League Jr. Summer Camp and taught young children about basic engineering and programming principles
- Mentored a first-time robotics team of young children and guided them and their parents through the season

### CROSS COUNTRY, WINTER TRACK, SPRING TRACK

Varsity, Team Captain | Sep 2018 - Jun 2019

Runner | Sep 2015 - Jun 2019

- Led a team of 50+ runners during practice as team captain

## EDUCATION

### UNIVERSITY OF TEXAS AT AUSTIN

BS IN COMPUTER SCIENCE

May 2023 | Austin, TX

College of Natural Sciences

Core Texts and Ideas Certificate

Cum. GPA: 4.0 / 4.0

Major GPA: 4.0 / 4.0

### WW-P HIGH SCHOOL SOUTH

June 2019 | West Windsor, NJ

GPA: 4.0 / 4.0

## COURSEWORK

### COMPLETED

Data Structures

Principles of Computer Systems (OS)

Computer Organization and Architecture

Autonomous Intelligent Robotics

(Peer Mentor & Research Asst.)

Autonomous Intelligent Robotics II

Discrete Mathematics

Multivariable Calculus

Statistics and Probability

Matrix Calculus

### CURRENT

Object-Oriented Programming

Symbolic Programming

Programming for Correctness & Performance

## SKILLS

### LANGUAGES & TECHNOLOGIES

Proficient:

Java • HTML • CSS • JavaScript

Node.js • ROS • gRPC • Git

Familiar:

C • C++ • PostgreSQL • Bootstrap • Bash

Heroku • x86 Assembly • GDB •  $\LaTeX$

Exposure To:

Python • Docker • Clojure • MATLAB

### GENERAL

Linux • Windows • Microsoft Office • GSuite

Qualtrics • English • Hindi • Spanish

## AWARDS AND HONORS

2020 CNS Inventors Fellow

2019 National Merit Scholarship

2019 National Honor Society Inductee

2018 FIRST Robotics Chairman's Award

2018 NJ State Debate Semifinalist

2018 NJ States Cross Country Medalist