

Kush Desai

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Education

The University of Texas at Austin

August 2018 - December 2021

B.S. IN ELECTRICAL AND COMPUTER ENGINEERING (DATA SCIENCE AND INFORMATION PROCESSING)

GPA: 3.60/4.0

Relevant classes	Operating Systems, Algorithms and Data Structures, Probability, Linear Algebra, Software Implementation and Design (Honors), Data Science Principles, Digital Image Processing
Languages	Python, Java, C, C++, Javascript
Technologies	Robot Operating System, AWS, Pytorch, Tensorflow, JavaFX, Flask, OpenCV, Git

Work Experience

BP Integrated Supply and Trading

Summer 2020

SOFTWARE ENGINEERING INTERN

Virtual

Socially Intelligent Machines Lab

September 2018 - Present

RESEARCH INTERN

University of Texas at Austin

- Researching novel **audio-based learning** and **object recognition algorithms** under Dr. Andrea Thomaz
- Used **Python, C++, ROS, AWS** and **Javascript** to design Human Robot Interaction experiments

Fretail Hackers

January 2020 - Present

LOGISTICS DIRECTOR

- Handled logistics for SummerHacks 2020, a virtual hackathon with 300+ attendees from all over the world
- Created the ultimate-hackathon-starter-guide on Github to help educate first-time hackathon competitors

Projects

BEVO - Blind Environment Visualization Objects

TAMUHack

BEST USE OF GOOGLE CLOUD, BEST ACCESSIBILITY HACK

2020

GITHUB.COM/KDESAI2018/BEVO

- Used **Tensorflow, Google Cloud, Python** and **OpenCV** to build a palm and object recognition pipeline to help visually impaired individuals locate objects using audio cues

ROS Object Recognition

Open Source

GITHUB.COM/KDESAI2018/ROS-OBJECT-RECOGNITION

2019

- Built and finetuned an **open source, Robot Operating System** based **real-time object detection** system using **Python, PyTorch, COCO** and **OpenCV**

Drowsy Driver

UT Makeathon

1ST OVERALL, BEST IN WORKPLACE SAFETY

2019

GITHUB.COM/KDESAI2018/DROWSY-DRIVER

- Used **OpenCV, Python** and **Arduino** to create an eye and grip tracking system to determine driver alertness
- Contributed this project to the open-source face_recognition project with 34.2 stars on Github

Tracer

HackMIT

DEVPOST.COM/SOFTWARE/TRACER

2019

- Built a game hosted on **AWS** using **Javascript** and **PIXI** to introduce programmers to the debugging process

BetterKey

TAMUHack

DEVPOST.COM/SOFTWARE/BETTERKEY

2019

- Created a **genetic algorithm** in **Java** to create a keyboard layout **customized for the user** that minimizes typo collision by 60% (versus DVORAK) and increases typing speed by 10% (versus QWERTY)