

Karan Shah

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Arlington, Texas

[Portfolio Website](#)

EDUCATION

University of Texas at Arlington Master of Science in Computer Science

Arlington, TX

August 2023 - May 2025

- Coursework: Design & Analysis Algorithms, Database Systems, Data Analysis & Modelling Techniques, Data Mining, Machine Learning, Software Engineering, Artificial Intelligence, Computer Vision, Introduction to Unmanned Vehicle Systems.

Charusat University Bachelors of Technology in Computer Science

Anand, India

Jun 2019 - May 2023

- Built strong foundation in Machine Learning, Artificial Intelligence, Augmented and Virtual Reality and IoT.

WORK EXPERIENCE

Research Assistant UTA Research Institute (UTARI)

Arlington, TX

November 2023 - December 2024

- Develop **UTA Research and Development Platform (UAV's)**
- Build website for UTA Research and Development Platform

IoT Intern Hats Off Solutions

Gandhinagar, India

January 2023 - May 2023

- Supervised IoT project
- Built a hexacopter UAV with in-house 3 piece camera system
- Assist in the development of software solutions to enhance the functionality and performance of the company's autonomous hexacopter drone and unmanned vehicles.

SKILLS

Technical: Python, PHP, Laravel, .NET, ReactJS, AngularJS, NodeJS, MongoDB, Pandas, Java, MATLAB, Simulink, HTML, CSS, jQuery, Javascript, Solidworks, Blender, ROS (Robot Operating System, Mavlink, C/C++.

Proficient Skills: Communication, presentation, critical thinking, IoT hardware, sensors, actuators, Arduino, Pixhawk, UART, I2C, Classification, Regression, Agile Methodology, Pattern Recognition, Reinforcement Learning, Data Analysis, Data Mining, Software Development Lifecycle (SDLC), Algorithm Development, User requirement, Time management, Business Analytics, Data Science.

PROJECTS

DAIOCKS (Diagnosis Socks)

January 2023

- Filed patent project
- IoT product majorly for orthopedic patients to diagnose GAIT (walking) problem
- Easy to use and wear product
- Live chart representation

AUTOSICO (Audio To Sign Converter)

November 2022

- Website to convert audio input into appropriate sign language.
- Audio to visual representation
- 3 language support

ACHIEVEMENTS

3rd Position: Footprint 2023 - A National Level Event

February 2023

- Project: DAIOCKS
- Category: Technology and Innovation

Silver Award: MakerFest 2023 (Vadodara)

January 2023

- Project: DAIOCKS
- Category: Physiotherapy