**Yash Sinha**

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**Objective**

Seeking a internship in computer science which will utilize my previous work experience and skills

**Education**

Southern Methodist University, Dallas, Texas

**Bachelor of Science in Computer Science** (Grad Date- May 2023)

**Bachelor of Science in Statistical Science** (Grad Date- May 2023)

***~ Current GPA: 3.89***

# Skills/Certifications

IT Certifications: CompTIA Linux+, Machine Learning Certification offered by Stanford, Microsoft Office Professional (Excel, Word, PowerPoint, Outlook)

Computer Science Skills:

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| *Languages:* | **C++, Python, R,** Java, SQL(MySQL), MATLAB, HTML, SAS, SPSS |
| *Environments:* | **Git, Linux**, **Windows**, Anaconda, Test-Driven Development |

Related coursework: IOT Development, Statistical Computing, Data Structures, Software, Algorithms

# Career History

**Experience:**

**Advanced Supply Chain Solutions (a GMC company) -** IS intern (Summer 2019)

Chat bot for corporate website (Python): developed and trained a feedforward neural network in python incorporating the TensorFlow framework to train responses based on basic questions and answers about the company, and used the NLTK as stemmer to derive the intent of the user to create a contextual chatbot.

**Selected Projects (**https://github.com/ysinha24**):**

* Home Security System: used multiple ESP32-CAM microcontrollers as an IOT device that detects an individual, takes a picture, and stores the images on a local MySQL database using APIs. These images are further processed using AWS Lambda cloud computing to detect known faces using OpenCV and premade machine learning architectures. The system also sends a real-time SMS text for any unauthorized people, and also analyzes who enters at each time and provides a weekly overview of occurrences.
* KNW Robot Competition: worked as a team to develop a robot that achieves certain functionality (sensor readings, navigation, and adaptability). Used the scrum methodology to complete certain deliverables within five sprints, efficiently planning and dividing work amongst members. Worked on coding in C++, electrical wiring, and the mechanical structure and ultimately placed first in the competition.
* JSON Search Engine: worked with a partner to develop an interactive Search Engine that parses JSON files, store key terms and authors in an AVL Tree and Hash Table respectively, and run statistical tests to find the efficiency for each structure. Additionally, we used the TF-IDF Statistic to order the results of each query, supporting set Union, Intersection, and Not operations to create complex queries.

**Associations/ Awards:**

* AWARDS: Discovery Scholar / SMU Provost Scholarship