SALIL MONGA

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# **SKILLS**

* **Programming Languages:** C, C++, Matlab, Java
* **Databases:** MySQL
* **Web Technologies:** HTML, CSS
* **Operating Systems and Tools:** Kali Linux, Windows, Eclipse, Visual Code, Arduino.
* **Frameworks and others:** BurpSuite, Java Swings, Git, ReactJS.

# **EDUCATION**

## Ohio State University

*Bachelor of Science in Computer Science and Engineering**Class of 2021*

**GPA: 3.5/4.0**

# **PROJECTS**

## Domotics 2020

* Developed and designed a home automation device using **Google Home**.
* Created custom commands and server hosted on **RaspberryPi** that has a **Python** script running to take any commands that are available.

## Infinite Numbers Calculator 2019

* Implemented a GUI based on **JAVA** and **Swings** framework to develop a calculator.
* Used a Natural Numbers Library to effectively removes the upper bounds to a number that can be entered.

**Dictionary 2019**

* Designed and developed a dictionary using **Java** and **HTML**.
* Used a text file with words and definitions to return a well-formatted **HTML** file.
* The file contains an alphabetical list of all the words and clicking on it reveals the definition which includes hyperlinks to the words already present in the dictionary.

## Smart Home 2018

* Developed a home automation system using **Arduino uno**.

## Automated fans, lights and air conditioning which can be controlled by an android phone or could be set to an automatic trigger to surrounding conditions.

## Used temperature and light sensors and a Bluetooth module to support various controlling techniques.

## Obstacle Avoidance Robot 2017

* Developed an **Arduino** based robot using ultra sonic sensors and scrap metal and a motor.
* Integrated 3 different **ultra-sonic** sensors to go through the obstacles quickly.

# **EXPERIENCE**

**Office of Distance Education and eLearning: Ongoing**

*Student Technical Assistant at the Ohio State University:*

* Ensured day-to-day functioning of the university in offline as well as online mode of learning.
* Troubleshoot technical issues within desktop, laptop, and mobile computing environments, including Windows, OSX, iOS, and Android.
* Solved problems related to network and hardware issues.

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# **EXTRA-CURRICULAR**

* **Winner** of National level Arduino based **Coding** competition in TechTatva’17.
* **Organizer** of National level Arduino based **Coding** competition in TechTatva’18.