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.

# PROJECTS

## Smart Home-I

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

## Automation included 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

**Dictionary**

* Designed and developed a dictionary using **Java** and **HTML**.
* Takes a text file with words and definitions and returns 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.

## Obstacle Avoidance Robot

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

## Smart Home-II

* 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

* 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.

# EDUCATION

## Ohio State University Columbus, OH

**BS in Computer Science and Engineering** Ongoing

## ICAS-Manipal University Manipal, India

**BS in Computer Science and Engineering** May 2019

# EXTRA-CURRICULAR

* Director of International **Lions Club**-MAHE Campus.

Skills developed: Leadership quality, communication, Identifying the best in people

* Technical Head of **I.E. Mechtronics**.

Skills developed: Time management, delegation, teamwork, strategic thinking.

* Participated in several **Cubing** competitions, **WCA NR-1970**

Skills developed: Spatial awareness, coordination

* Organized National Level Competitions in **TechTatva’18**.

Skills developed: Managing a team, delegation, responsible thinking, critical thinking.

* **Basketball** College Level -2nd Prize.

Skills developed: Teamwork, Sportsmanship.