

# SALIL MONGA

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## SKILLS

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- **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

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### Smart Home Using Arduino

- 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 IOT

- 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

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**Ohio State University**  
**BS in Computer Science and Engineering**

**Columbus, OH**  
Ongoing

**ICAS-Manipal University**  
**BS in Computer Science and Engineering**

**Manipal, India**  
May 2019

## EXTRA-CURRICULAR

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- 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-2<sup>nd</sup> Prize.  
Skills developed: Teamwork, Sportsmanship.