

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
BS in Computer Science and Engineering

Columbus, OH
Ongoing

ICAS-Manipal University
BS in Computer Science and Engineering

Manipal, India
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.