

# MUDIT GARG

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## PROFILE

As a **Software Developer**, I have a passion for crafting solutions with cutting-edge technologies, all while adopting a growth mindset. I am dedicated to fostering strong teamwork and collaboration, recognizing that unlocking the inner potential in others is integral to achieving success. My expertise lies in many core concepts, and I consistently strive to create programs that are characterized by cleanliness, readability, and modularity.

## EDUCATION

### Masters in Engineering (M.A.I.). Major in Computer Engineering

Trinity College Dublin, Ireland

Sept 2023 – Jun 2024

### Bachelors in Engineering (B.A.I.). Major in Computer Engineering

Involved in a 2+2 international credit transfer program based on merit.

Trinity College Dublin, Ireland

Sept 2021 – Aug 2023

Cumulative Grade: II.1 (Second Class Honors)

Thapar Institute of Engineering and Technology, Patiala, India

Aug 2021 – Sept 2021

Cumulative Grade: I.1 (First Class Honors)

## EXPERIENCE

### General Motors

Dublin, Ireland

#### Advanced Software Developer Intern

Jan 2023 – Aug 2023

- Proven track record of collaborating with skilled teams to deliver critical project features and developing API endpoints, adhering to various **Agile** ceremonies.
- Contributed to the full-stack development, utilizing various cutting-edge technologies such as **Java, Spring Boot, Maven, Angular, Postgres, and Docker** for the development of optimized software solutions.
- Streamlined the performance of a key project feature, consolidating the end-to-end services, restructuring the program flow to about **96.4% improvement**, reducing the project compilation time from **10min to 30sec**.
- Collaborating with one senior developer to turn **7 - 8 SQL data sources** into valuable insightful insight report using Microsoft's business analytics tool **Power BI** and increase the readability of data by many folds.

## SKILLS

### Programming Languages:

Python, Dart, Java, C++ and JavaScript

### Core Concepts:

OOP, DSA, Agile and Scrum, Refactoring and Debugging

### Libraries:

ScikitLearn, Numpy, Tensorflow, OpenCV

### Frameworks:

Spring Boot with Java, Flutter with Dart, React with JS and MUI

### Tools:

Jupyter Notebooks, Git and Azure DevOps, Power BI, TinkerCAD

### Platforms and Databases:

GitHub, Firebase, Heroku, SQL, Google Cloud

## PROJECTS

### Gesture recognition-based device control

Jan 2024

Python, Jupyter, Tensorflow, OpenCV, Numpy, ScikitLearn, Mediapipe

[https://github.com/muditgarg48/gesture\\_based\\_device\\_control](https://github.com/muditgarg48/gesture_based_device_control)

- Utilized a **LSTM neural network** to develop a gesture recognition model that trains using 30 videos of 30 frames each, for each gesture and then use that gesture to control IoT devices.
- Utilized **Python** for scripting, automation and development, **Mediapipe and OpenCV** library for keypoints extraction, **Jupyter, Tensorflow, Numpy and ScikitLearn** for model preparation and training.

### Candle in Dark

Mar 2024

Flutter, Dart, Firebase, Google Cloud, XML, GitHub Pages

[https://muditgarg48.github.io/candle\\_in\\_dark\\_web/](https://muditgarg48.github.io/candle_in_dark_web/)

- Ideated and developed a **cross platform application** using **Flutter** and **Firebase** that serves as a platform guide for the newly arrived students of Trinity College to know everything about Trinity and Ireland.
- Includes various interwoven intricate systems including **user authentication and authorization, feedback collection system, light/dark theming system, etc.** to name a few.