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

Cumulative Grade: II.1 (Second Class Honors)

Thapar Institute of Engineering and Technology, Patiala, India

Cumulative Grade: I.1 (First Class Honors)

Sept 2021 – Aug 2023 Aug 2021 – Sept 2021

EXPERIENCE

General MotorsAdvanced Software Developer Intern

Dublin, Ireland

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, Gen AI, 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, OCI Generative AI

PROJECTS

Gesture recognition-based device control

Jan 2024

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

- 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.