

MADHUSUDHAN T

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EDUCATION

R.M.K ENGINEERING COLLEGE, ANNA UNIVERSITY
Bachelor of Engineering in Electrical and Electronics

AUG 2015- MAY 2019
CGPA: 7.85/10

TECHNICAL SKILLS

- **Programming Languages:** C, Java, Python, Hibernate, Spring Boot.
- **Web/Mobile Technologies:** HTML, CSS, JavaScript, Bootstrap, Angular, React.
- **Tools:** Docker, Selenium.
- **Databases:** MySQL, NoSQL (Firebase).

WORK EXPERIENCE

Wipro, India

Aug 2019 – Present

Junior Software Engineer, Full Time

- Understanding the Software Requirement Specification (SRS) and develop the code based on requirement using angular, bootstrap and java.
- Perform deployment of application in WAS in higher environment and perform unit testing based on requirement.
- Developed new functionalities and extending business logic within existing backend services and propose robust solutions to meet client requirement.
- Toiled on Azure and dockers.

Hope Trust, NGO, Chennai, India

February 2018 – Present

Team Lead, Fund raising Team & Teaching, Part Time

- I lead a team of 70 members where we raise the funds for donating to Government and tribal schools which helps for underprivileged children education.
- As a lead I have implemented the digital marketing strategy especially used social media marketing to raise the funds for events.
- I worked as part time teacher where I teach government school and tribal kids about the technology and current technical era.

PROJECTS

FS Electric Vehicle

April 2018 – January 2019

- Developed a formula car from scratch in Chennai with team of 10 electrical and 16 mechanical students for formula Bharath event where I lead my electrical team
- It is a formula type 2 car which runs fully using electrical.
- It has an acceleration speed of 0-100kmp in 8 seconds with the help of lithium polymer battery and PMDC motor.
- We built circuits like pre-charge, discharge circuits and shutdown interlocks, and did calculation for design of battery and motor.
- Working more on this project enhanced my interest in self-driving cars using AI.

Automatic Solar panel Cleaning Robot Using Firebird V

Academic, Dec 2019-April 2019

- Progressed through the investigation under an expertise to design and develop an efficient system for cleaning the solar panels.
- The main objective of this project is to produce more green energy by cleaning the solar panels automatically.
- Firebird V ATMEGA2560 Microcontroller will automatically trigger the robot which consists of rotating cylindrical brush keeping in the mind limited availability of water areas like deserts, it is dry method of cleaning
- Main specification of ATMEGA2560 has Microcontroller, Sensors, Indicators, Communication control and robotic arm to detect the least efficient places on the solar panel

Hope Trust TWC Website

June-2017

- Designed and developed an official website for my NGO
- Using angular framework in client side it is connected to firebase as database and server.
- For page designing I have used bootstrap.

PUBLICATIONS

- Published a paper titled “Automatic Solar panel cleaning robot using firebird V” in the International Journal of Engineering, Science and Computing (IJESC), RMK Engineering college, Chennai. March 2019

CERTIFICATIONS

- Diploma in Unix and C, CSEC Institute November 2017- March 2018
- Attended Inplant training in Integral Coach Factory, Chennai May 2018
- Business English Certificate, Cambridge English February 2017
- HTML, CSS, JavaScript July 2019
- Java Programming Masterclass for Software Developers January 2020
- Data structure and Algorithms, Deep Dive Using Java August 2020
- Introduction to Big Data July 2020
- Bits and Bytes of Computer Networking January 2021
- Elements of AI, University of Helsinki January 2021

- Bitcoin and Block chain Basics
- Fundamentals of Digital Marketing, Google

July 2020
August 2020

AWARDS AND ACHIEVEMENTS

- Member of Institution of Engineers, India.
- Awareness Program on Industry 4.0, NIQR, Chennai.
- Best Volunteer, Hope Trust
- Served as volunteer for awareness session on plastic to Pathiri village people, Tami Nadu, India
- Mentor for an Undergrad student, Mentor together NGO
- ESO (Electric security officer) for my Electric car which we built for FS Event

Dec 2020
May 2018
April 2018
December 2017
April 2018
January 2019

LANGUAGES KNOWN

- Telugu
- English
- Tamil
- Hindi



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