Madhav Karthickk I

Bachelor Of Engineering

⊙ Coimbatore, India

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ABOUT ME

A final year Mechatronics Engineering student with a strong coding background and a passion for software development. Eager to embrace new challenges and collaborate with others to better the world of technology. Enthusiastic about Full Stack Development, Android app development, and UX/UI design, adapting to new technologies with every learning experience.

PROJECT

- **Smart portable and modular retail checkout device with web application (Ongoing)**
  1.User Authentication panel:
  Description: Developed a dynamic user panel for retail shops, enabling seamless user management
  Tech stack used: HTML, CSS, JavaScript, Bootstrap, Figma
  2.Shopping platform:
  Description: Developed a user-friendly web application for cart products, integrating secure payment gateways.
  Tech stack used: HTML, CSS, JavaScript, MongoDb., Figma
- **Employee Attendance Management system in Coimbatore (Oct 2020)**
  Description: Developed an Android attendance management system using Java in Android Studio, with seamless integration of Google Firebase for data storage. Designed a user-friendly interface for efficient attendance tracking. Conducted rigorous testing and provided good results
  Tech stack used: java, google firebase, android studio, Adobe XD
- **Automated vending and packing machine (Dec 2023)**
  - **weigh** the product for the customer requirements and **pack it**
  - used **ESP32** and coded with arduino IDE
  - configure the RemoteXY App to your product
- **Aerodynamic Analysis with Modifications (May 2023)**
  - In May 2023, performed aerodynamic analysis on a car, focusing on drag reduction and downforce enhancement. Installed a rear wing to boost downforce and minimize drag. Integrated OBD scanner to link car sensor data with smartphone, resulting in 0.02% drag reduction post research and analysis.
- **Wind Tunnel Testing and Analysis (jan-2023)**
  - Project entails constructing a scaled-down wind tunnel for analyzing lift and drag of objects placed inside.

HARD SKILLS

- **Programming**
  - Java
  - Python
  - HTML5
  - CSS
  - JavaScript
  - React.js
  - MySQL
  - MongoDB
  - G-Firebase
  - AWS
- **Designing**
  - Figma
  - Adobe XD
  - PhotoShop
  - shaper3D

INTEREST

- Data structure and algorithms
- Full stack
- Web development
- Designing

SOFT SKILLS

- Quick learner
- Communication
- Problem solving
- Team management

SOCIAL NETWORKS

⊕ https://madhav-tech1212.github.io/Portfolio/

in linkedin.com/in/madhavkarthickki/

○ madhav-tech1212

LANGUAGES

- English

INTERN EXPERIENCE

- PLC Programmer in **Universal Automation systems Pvt Ltd Bangalore(Mar 2024-Current)**
  - As a PLC programmer intern, I specialized in developing and implementing PLC programs, integrating with SCADA systems and utilizing LabVIEW. My primary focus was on **HMI design**, emphasizing intuitive interfaces to enhance operator efficiency. I conducted rigorous **testing and debugging** to ensure optimal functionality. Additionally, I provided technical support during installation and commissioning phases. I also contributed to documentation efforts, detailing technical specifications and operation manuals HMI systems.
- Engineering system Analysis in **New Zealand (Jan & Feb 2023)**
  - In my Internship program in New Zealand, I acquire skill on **Race Car Engine Performance**, obtaining hands on experience in hardware and software tuning, aerodynamics, and analytical problem-solving. This comprehensive training has primed me for automotive industry internships.

EDUCATION

- **Kumaraguru college of technology, Coimbatore.**
  BE in Mechatronics
  2020-2024
  CGPA - 7.01 (upto 7th semester)
- **ISC - 12th STD**
  2019-2020
  Percentage - 58.5
- **SSLC - 10th STD**
  2017-2018
  Percentage - 68.5