Madhav Karthickk I
Bachelor Of Engineering

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🌐 Web Resume
🔗 madhavkarthickki/
○ GitHub

Education

B.E in Mechatronics Engineering CGPA - 7.01   2020 - 2024
Kumaraguru college of technology   Coimbatore ,India

ISC - XII Percentage - 58.5   2018-2020
Riverside Public School   Kotagiri ,India

Skills summary

- **Language:**   Python, Java, Solidity
- **Frameworks:**   React.js , Typescript ,(Frontend- HTML, CSS ,JavaScript)
- **Platform:**   Pycharm, Visual studio code, Android Studio, Jupyter Notebook
- **Soft Skills:**   Leadership, Attention to Detail, Problem-Solving, Teamwork

Experience and Internships

CDIX INNOVATION PVT LTD Chennai   (Jun 2024 - Present)
Junior Developer
- Full Stack developer - building web app and mobile apps
- Making web application framework used in React.js Next.js, for DB - Mongodb

Volunteer in DEVCON 7 SEA   (Nov 2024-Nov 2025)
Community outreach Manager
- Assisted in Ethereum & Web3 developer workshops, helping participants set up development environments (e.g., Hardhat, Foundry, Remix).
- Provided guidance to attendees on smart contract development and deployment on testnets like Sepolia and Holesky.
- Helped manage hackathon sessions, ensuring smooth participation for teams building dApps, DeFi protocols, and NFT projects.
- Supported technical talks on Ethereum scaling, including Layer 2 solutions like Optimistic & ZK rollups (Arbitrum, StarkNet, zkSync).
- Facilitated Web3 tooling sessions, where developers explored frameworks like Hardhat, Ethers.js, Web3.py, and The Graph.

Chennai Freelancers Club Chennai   (Aug 2024-Jan 2025)
Community outreach Manager
- Have organization monthly meetup in Chennai
- Management of the community
- Organized an Global Freelancers Festival 2025 with over 3000+ attendees which was a massive hit in Chennai

Universal Automation systems Pvt Ltd Bangalore   (Mar 2024-April 2024)
PLC Programmer
- Developed and implemented PLC programs with integration to SCADA systems, using LabVIEW.
- Focused on designing user-friendly HMI interfaces to improve operator efficiency.
- Conducted testing, debugging, and provided technical support during installation, along with contributing to technical documentation.

Ara Institute of Canterbury Ltd New Zealand   (Jan 2023-Mar 2023)
Student internship
- Completed a three-month internship in New Zealand focused on Engineering System Analysis.
- Gained hands-on experience with race cars (F4, F3, F2, F1), engine mechanics, and components like camshafts and cylinder heads.
- Participated in track races, enhancing practical automotive engineering skills.
- The internship combined professional development with cultural exploration, shaping my future career in engineering and motorsports.

Projects

Smart portable and modular retail checkout device with web application   (Dec 2023-April 2024)
- Utilized Raspberry Pi 5 for the project, installing Python and leveraging computer vision to achieve 96% accuracy in product detection.
- Created a user-friendly shopping platform with secure payment integration, using HTML, CSS, JavaScript, MongoDB, and Figma to ensure an efficient and secure shopping experience.
- Built a dynamic web application for managing cart products and enhancing user experience in retail environments, integrating with the previously developed authentication and payment systems.

Automated vending and packing machine   (Jun 2023-Nov 2023)
- Weighed and packed products according to customer specifications, employing ESP32 microcontrollers and programming with the Arduino IDE to ensure accuracy and reliability. Got accuracy of 98%
- Configured the RemoteXY App to facilitate seamless product control and integration, enhancing the user interface and interaction for efficient management.
- Utilized ESP32, Arduino IDE, and RemoteXY App to streamline product management processes, achieving high efficiency and responsiveness in handling customer requirements.

Certificates

- *Webinar on '**Digital Twin Solution for Autonomous Vehicles**' on 27 & 28 of March 2023.*
- *'**E Grid on Electric vehicles**' on 18, 19 & 21 of May 2022.*
- *Certificate of completion on '**Learn 5 PLCs in a Day-AB, Siemens, Schneider, Omron & Delta**' in Udemy on 20 December 2022.*
- *Certificate of completion on '**Engineering system analysis**' in New Zealand on 9 February 2023*
- *Certificate of completion on 'UI/UX Concepts and figma basics' in sns square on 9 & 10th Dec 2023*