

Raja Asiwali Software Developer

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Skills

Skills:

C | C++ | Python | Java | HTML | CSS | JavaScript; Familiar: Machine Learning (ML) | NodeJs | Postman | ExpressJs | MongoDB | RDBMS | MySQL | NoSQL | Pug | Object Detection (OpenCV) | Sklearn | Git | GitHub | GitHub Pages | Geany | Phycharm | VS code | Ubuntu | Jupyter Notebook | Numpy | Pandas | Matplotlib | Big Data Pipeline | ArduinoUno | Raspberry Pi | ReactJs

Courses and Projects:

Data Structure and Algorithms (DSA) | Object Oriented Programming (OOPS) | Operating System (OS) | Artificial Intelligence (AI) | Microprocessor and Computer Architecture | Information Science | Database Management System (DBMS) | Internet of things (IOT) | Advance Digital Signal Processing (ADSP) | System Design | Advance Control and Network Theory (ACNT) | VLSI | MEMS | Wireless Communication and Sensor Network (WCSN) | Mixed Signal Circuit Design | Multiple Antenna System | Smart Grid and Energy Management | Advance Navigation and Healthcare System | PV | Embedded Programming; Smart City Model with smart car and smart sensors | Smart Fish | FM Radio | Battery Charger and Charge Estimation | Specific Voice Controlled toy-car | Requirements and cost analysis of 5G network for Indian people and military | Drones

Other

- [Solved 100+ questions on LeetCode](#) 📄
- [Verified golden badges and skills on the HackerRank platform](#) 📄

Education

IIT Hyderabad, BTech Major in Electrical Engineering with CGPA 7.1	07/2017 – 06/2022 Hyderabad, India
SVP Sr Sec School, Senior Secondary School (XII) Percentile: 84.80% with 100 out of 100 in mathematics.	05/2015 – 06/2016 Jaipur, India
SSVM Sr Sec School, Secondary School (X) Percentile: 81.33%.	05/2013 – 06/2014 Jaipur, India

Internships

FreeCo Education, Quality Analyst <ul style="list-style-type: none">• Evaluated around 350 solutions per day from USA and Indian textbooks• Improved and created around 20 solutions/day for questions on programming languages C, C++, Python, Java.	09/2021 – 12/2021 Jaipur, India
Kunduz, Doubt Solver <ul style="list-style-type: none">• Solved around 15-20 IIT level Mathematics & Physics questions with a rating of 4.4/5.	09/2020 – 11/2020 Jaipur, India
MyTutor247, Mentor <ul style="list-style-type: none">• Mentored and guided around 40 students for IIT exam preparation against the cap of 25 students/mentor• Tutored mathematics and Physics topics, provided study material and conducted weekly exams	07/2019 – 01/2020 Hyderabad, India
Prayaas Corps (NGO), Teacher <ul style="list-style-type: none">• Taught students, collected donations and volunteered to arrange Carnival functions and games for 200 children	05/2019 – 06/2019 Jaipur, India

Projects

Dance Academy Website 📄 <ul style="list-style-type: none">• Build an Dance Academy desktop website by HTML, CSS, JavaScript, NodeJs, ExpressJs, nodemon, pug• Monitoring, testing, debugging, maintaining and upgrading website with ReactJs, Nginx to reduce load time by 20%• Deployed the website and the source code 📄 on GitHub pages	05/2021 – present
ML Price Predict Model 📄 <ul style="list-style-type: none">• Archived data from the Boston Housing UCI ML repository 📄 and imported 500 rows data using pandas in Jupyter notebook• Built a data pipeline with 92.3 accuracy using python, sklearn, numpy, imputer.	01/2022 – 03/2022
Electric Vehicles <ul style="list-style-type: none">• Computed around 3Cr INR cost for diesel buses and vehicles used in IITH for 10 years• Calculated approx 2.5 Cr INR cost to transform them into hybrid diesel-electric for 10 years• Estimated cost of about 7 crore INR for EV with solar panel chargers for 25 years and 23% reduction in cost (around INR 2 Cr).	08/2021 – 12/2021
Smart Power Monitor <ul style="list-style-type: none">• Measured power usage data using Power Monitoring Device and uploaded using Arduino, Wi-Fi-module• Collected class timing data for 3 months from the institute• Calculated a reduction of 6-7% (INR 1 Lakh/Building per month) in the electricity bill amount.	07/2020 – 05/2021

Smart Control on Vehicles

08/2018 – 12/2018

- Every vehicle has a chip which contains max 10 people data who can ride that vehicle
- Generated 10 min time limit OTP and QR code using python
- Appreciated by college professors to build to reduce traffic police corruption which is around 48000 Cr INR. [↗](#)

Other

Languages: Hindi | English

Interests:

- Real time problems solving using technology
- Love projects and teaching
- Learning new languages

Moto:

- Explore limits and push them to learn new
- Work on different technologies