

Trisham Bharat Patil

Certified Web Developer

PERSONAL INFORMATION:

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EDUCATION:

MS
Mechanical Engineering,
Worcester Polytechnic Institute, USA.
2019-2021

BE
Mechanical Engineering,
University of Pune, India.
2015-2019

SKILLS:

HTML5
CSS3
Bootstrap Framework
Bulma Framework
JavaScript (ES6)
jQuery
PHP
MongoDB
ExpressJS
ReactJS
NodeJS
Python
PyCharm IDE
Java
Eclipse IDE
MATLAB
Solidity
Git
GitHub
Ubuntu
Postman

CERTIFICATIONS:

Core Java- Learn Quest (2022).
Web Design and Development-
SourceCode Academy (2022).
Web Developer Bootcamp- Udemy (2022).
NodeJS-Udemy (2022).

Web Developer with a proven ability to adapt in both self-starting and collaborative environments while staying focused on achieving high-quality results under strict deadlines. Proficient in C++, Java, Python, JavaScript, and PHP, working knowledge of Frontend development using HTML5, CSS3, Bootstrap, JS and React JS, and Backend development using MongoDB and NodeJS.

Projects:

Weather APP (NodeJS+ExpressJS).

- Developed a weather app which provides users with the forecast.
- Connected app to the outside world using asynchronous NodeJS to make HTTP API request to third party HTTP API's, Weather Stack and Geocode API.
- Created Node server using Express allowing users to interact with app by using an URL from the browser.
- Utilized npm packages handlebars to provide dynamic templating for the app.
- Set up communication between server and client via HTTP requests.

Mapty Geolocation App (JavaScript).

- Developed an app which can track users location and log their workout.
- Used the geolocation API to track users location.
- Developed a beautiful user interface using HTML5 and CSS3 and added functionality using JavaScript.
- Used the leaflet JavaScript library to render the map on the screen.
- Utilized advanced JS features like DOM manipulation and event listeners to provide added functionality to the app.

Genetic Algorithms (Python).

- Developed an algorithm designed to replicate the natural selection process for the travelling salesman problem.
- Utilized principles of OOP and DSA to develop the algorithm to determine the shortest path using Python.
- Devised various test cases to test validity of the algorithm.
- Proactively liaised with other team members to ensure sufficient and timely development of the algorithm.

Multi Robot System (MATLAB).

- Utilized knowledge of advanced robot dynamics to calculate trajectory of robotic manipulator and arm using MATLAB.
- Designed robotic arm assembly using dynamic equations in SOLIDWORKS, simulated robotic system using ROS2 (Foxy Fitzroy) on Ubuntu 20.04.1 and visualized through the RVIZ user interface on ROS 2.