Vaibhav Dasharathe

Pune, Maharashtra, India

📞 +91 8530617659 ✉ vinfinitysailor@gmail.com Github linkedin Leetcode

Education

Vishwkarma Institue of Technology, Pune   **August 2018 - June 2022**
Bachelor of Technology in Production Engineering(CGPA of 7.85)   *Pune, India*

AUBHS Jr. College, Pune   **August 2016 - June 2018**
12 th Science (Percentage of 75.08)   *Pune, India*

Experience

Tata Elxsi   **Aug 2021 – May 2022**
Robotics Engineer Intern   *Banglore, India*
- Created An OSM Planner which accepts both gui and terminal inputs, generating path over pixelated **Open Street Map** tiles with calculated approx. distance from Indoor location to Outdoor Goal and Vice-Versa Considering switching between different modes of driving. Task Achieved in C++, using Xml parser lib, **Astar algorithm**, OSM data, Rviz.
- Comparative study done on different path Planning Algorithms suitable for Autonomous Vehicle Driving in indoor and Outdoor Environment, Code Generated (in C++ and python) and **Optimised** for same.
- Recreated 3d World of targeted Area in **real world** for Autonomous Driving using OSM Model and Blender plugins.
- Implemented **Cloud Robotics Architecture** on Kubernetes. Successfully tested Cluster network communication through DDS layer of Ros2 Framework. Deployment Achieved in both minikube and microk8s.

RigBetel Labs   **May 2021 – June 2021**
OpenSource Developer Intern   *Pune, India*
- Worked on Ros based robots local navigation and configuration parameter tuning for custom made robots.
- Robotic 5 Dof Arm Design in Fusion 360 and 3d Printed same for prototype testing with actuators and **Moveit Motion plannnig Framework** of ros system.

Projects

Docs-io | *React.js Node.js MongoDB Google Auth Express* | Live   **May 2021**
- Personalized documentation Web App for notes taking and learning purpose. Supports Text, Code, Imgs, Yt, etc
- Rich Text Editor build with **Draft js** allows full flexibility of text editing and custom add-on features addition.
- The search option allows the user to see all the matching results in database. It allows user to search in both personal as well as public docs available in database. Highlights search keywords found in search results
- Productivity Focused UI/UX with least and must required features keep docs concise and simple.

CodeBase | *React.js, NodeJS, MongoDB and Express* | Live | Code   **Feb 2022**
- Codebase helps user to save multiple solutions for same problem with different space and time complexity or approach.
- User can add/edit problem description with text editor space.

Achievements

- Secured Top 13 Position over 450+ Teams across All India in E-Yantra Robotics Competition 2021 by IITB.
- Jee Mains Qualified With All india Rank - 64169.
- Solved/Practiced more than 200+ DSA problems across platforms[**Leetcode, CodeChef, GFG**].

Technical Skills

Languages: C/C++, Python, HTML/CSS, JavaScript, SQL
Frameworks/Libraries: React.js, Express, MongoDb, NodeJs, Tensorflow, OpenCv.
Technologies: Docker, Git, Ubuntu, Ros/Ros2, Kubernetes.

Certificates/Courses

- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning - **Coursera Aug 2020**
- "Integrated Apple Plucking and cutting of Stalk Mechanism for bot" paper presented At **ABMSAHT Jan 2020**
- Google AI — Explore ML Completion Certificate -**DSC VIT,Pune Dec 2019**