IFTAKHAR KAUNAIN ASHHAR

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EDUCATION

Bachelor of Technology (Honors) Expected 05/2023

Mechanical Engineering CPI 8.6/10

Zakir Husain College of Engineering and Technology, Aligarh Muslim University

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SKILLS

Programming Languages JavaScript, Python, C

Frameworks/Libraries React.js, Vue.js, SASS, ROS, OpenCV, NumPy

Tools/Technologies HTML, XML, CSS, JSON, Gazebo, RViz, GitHub, MS Office

Operating Systems Linux, Windows

WORK EXPERIENCE

ONBO Bengaluru, KA, India Jun 2021 – Sep 2021

Intern Front-End Engineer

- Developed components of the web application with Vue and React.
- Created both stateful and stateless components in React.
- Created a custom planner cum calendar by integrating the Toast UI Calendar API.
- Created real-time current and upcoming task updates with Moment.js.
- Developed pixel-perfect webpages from Figma designs and integrated APIs, where needed.

OTHER EXPERIENCE

MTS – AUV Club ZHCET, AMU, Aligarh, UP, India Nov 2020 – Mar 2022

Computer Team Member

- Worked on autonomous underwater vehicles for various national and international competitions.
- Researched and implemented new technologies on vehicles.
- Learned ROS to potentially implement on future vehicles.
- Qualified phase 1 of the Virtual Online Robotics Competition.

PROJECTS

Fotogratis [Link: https://github.com/iftkhr/fotogratis]

- Developed a single page application (SPA) in React.js to search and download stock photos.
- Used Pexels and Pixabay APIs to search and display images.

Two-wheeled Robot [Link: https://github.com/iftkhr/two-wheeled-robot]

- Developed a simulation of a two-wheeled robot mounted with a laser scan sensor using ROS.
- Implemented obstacle avoidance, motion planning and wall-following algorithms.

Socket Cam [Link: https://github.com/iftkhr/socket_cam]

- Created a client-server script using Python and OpenCV, to transfer live video over LAN.
- Developed this project as a part of the Autonomous Underwater Vehicle Club.