IFTAKHAR KAUNAIN ASHHAR   +91-9897969256 | Aligarh, UP, India

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ACADEMIC BACKGROUND

Degree	Discipline	Institution	Grade	Year
Bachelor of Technology (Honours)	Mechanical Engineering	Zakir Husain College of Engineering and Technology, Aligarh Muslim University, Aligarh, UP, India	8.599/10	2023
Senior Secondary School Certificate	Science (Physics, Chemistry and Mathematics)	Sayyid Hamid Senior Secondary School, Aligarh Muslim University, Aligarh, UP, India	74/100	2018
Secondary School Certificate	Science, Mathematics, English, Hindi, Social Science	Our Lady of Fatima Senior Secondary School, Aligarh, UP, India	10/10	2016

SKILLS

Programming Languages	C, Python, JavaScript
Frameworks / Libraries	Robot Operating System (ROS), OpenCV, NumPy, Socket, React.js, Vue.js, Moment.js, SASS
Tools / Technologies	URDF, Xacro, Gazebo, RViz, HTML, XML, CSS, GitHub, MS Word, MS Excel, MS PowerPoint, Slack, Discord, Trello
Operating Systems	Linux (Ubuntu 18.04, Ubuntu 20.04), Windows

EXPERIENCE

Position	Organization	Details	Tools / Technologies	Duration
Computer Team Member	Marine Technology Society – Autonomous Underwater Club (MTS-AUV), ZHCET, AMU, Aligarh, UP, India	– Developing autonomous underwater vehicles for various national and international competitions. – Researching on new technologies and find ways to implement them on vehicles. – Learning ROS to potentially implement on future vehicles. – Qualified the phase 1 of the Virtual Online Robotics Competition.	Linux, Python, ROS, Gazebo, RViz, OpenCV, NumPy, JavaScript, HTML, CSS, GitHub, Arduino, Trello	Nov 2020 - Present
Intern Front-end	Bengaluru,	– Developed components of the	React.js, Vue.js, JavaScript	Jun 2021-

| | | web application with Vue and React. | HTML, CSS, | Sep |
| Engineer | KA, India | – 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. | HTML, CSS, SASS, Moment.js, GitHub, Figma, Slack | Sep 2021 |

PROJECTS

Name	Details	Tools / Technologies	Links
Two-wheeled Robot (Under Development)	– Developed a simulation of a two-wheeled robot mounted with a laser scan sensor using ROS. – Implementing obstacle avoidance, motion planning and wall-following algorithms.	URDF, Xacro, ROS, Gazebo, RViz, Python, GitHub	https://github.com/iftkhr/two-wheeled-robot
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.	Python, OpenCV, Socket GitHub	https://github.com/iftkhr/socket_cam
Sample Website	– Developed a dynamic sample website for a collegiate club. – Made with vanilla JavaScript.	JavaScript, HTML, CSS, GitHub	https://iftkhr.github.io/auv/
Random User Generator	– Developed a basic application that generates a random person with details like photo, name and e-mail. – Fetched the data from randomuser.me API.	Vue.js, JavaScript, HTML, CSS, GitHub	https://iftkhr.github.io/random-user-generator/
Task Manager	– Created a basic task manager UI. – Implemented functionality to add/delete tasks,	Vue.js, JavaScript, HTML, CSS, GitHub	https://iftkhr.github.io/task-manager/

AREAS OF INTEREST

Programming, Robotics, Mechatronics, Machine Learning, Artificial Intelligence, Autonomous Vehicles, Software Development

COURSEWORK

Relevant Courses	**Taken:** Applied Sciences, Mathematics, Programming, Basics of Electronics and Electrical Engineering. **Taking:** Mechatronics, Automation and Control.
Extra Courses	**Taken:** Web Development for Everybody by University of Michigan (Coursera) **Taking:** Machine Learning by Stanford University (Coursera)

ACHIEVEMENTS AND HONORS

- Qualified for Phase II of the Virtual Online Robotics Competition, 2020.
- School and City Rank 1 in National Cyber Olympiad.
- Honorable Mention in All India Essay Writing Event.
- Runner up in District Science Quiz Competition.

LANGUAGES KNOWN

English (Fluency in Reading/Writing/Speaking), Hindi (Fluency in Reading/Writing/Speaking), Urdu (Mother Tongue)