

Krushnal Patel

+91 7778091174 | krushnalpatel11@gmail.com

SKILLS

LANGUAGES

C++ • Python • \LaTeX
JavaScript • HTML/CSS

TOOLS+TECH

Linux • ReactJS • NodeJS
ROS • MongoDB • Azure
CI/CD • VCS

SOFT SKILLS

Leadership • Communication

EDUCATION

DELHI TECHNOLOGICAL UNIVERSITY

B.TECH IN COMPUTER ENGG.
Expected 2023 | New Delhi
Cum. GPA: 7.4/10
(as of III semester)

NEW MILLENNIUM SCHOOL

CBSE XII - SCIENCE
2019 | Bahrain
Percentage: 91%
SCHOLAR'S BADGE

INDIAN SCHOOL, BAHRAIN

CBSE X
2017 | Bahrain
Cum. GPA: 9.6/10

AREAS OF INTERESTS

Software development enthusiast specializing in autonomous mobility, Web Development and robotics.
Other hobbies and interests include cybersecurity and Artificial Intelligence.

LINKS

GitHub:// [krush11](#)
LinkedIn:// [krushnal](#)
My Portfolio: [krushnal.me](#)

SOCIETIES

COGNITIVE MINDS

JOINT SECRETARY
2020 - Present

- Participated in various debating competitions including IIT-BHU and IIT-Kanpur fests

EXPERIENCE

DEFIANZ RACING

Oct 2020 - Present | New Delhi

- Part of a team that aims to make the **1st autonomous F1 car in India**
- Built **pure pursuit** lateral controller and integrated it along with PID
- Responsible for integration of **SLAM** into **ROS framework**
- Designed and deployed the **official team website** using **NodeJS and MongoDB**
- Responsible for maintenance and addition of new features to the website

NAVIGATION LEAD

DTU SELF-DRIVING CARS

Dec 2019 - Sept 2020 | New Delhi

- Developed software suite of an autonomous vehicle for **IGVC'20** (*canceled due to COVID'19*)
- Integrated data from sensors into **ROS** with **NMEA 0183** compliance
- Build custom arduino scripts to extract data from rotary encoders

SOFTWARE ARCHITECT

CODING NINJAS

Sept 2020 - Jan 2021 | Online

- Mentored a batch of 20 students in competitive coding
- Debugged codes and assignments in C++14 and higher

TEACHING ASSISTANT

TECHNICAL PROJECTS

SIMPLIGIT

npm, git, JavaScript

- A **guided CLI** for **git** to aid new developers to use git.
- Achieved **over 200+ downloads** and users within a week
- Developed unit tests using **Jest**

npmjs.com/simpligit

WALL FOLLOWING ROBOT

ROS, Linux, git

- Built a center wall following robot simulation using **roscpp** and **rospy**
- Designed the **URDF** and customized it by adding a lidar plugin into **Gazebo11**
- Developed a 4x1 multiplexer to integrate all nodes to control **ackermann** drive

PROJECT LIGHTSPEED

NodeJS, HTML5/CSS3, MongoDB, git

- A secure lightweight and robust website to aid multi-national COVID-19 vaccine re-distribution
- Used **NodeJS** to build backend along with **MongoDB** for managing database
- Designed website using **MVC** design pattern for user interface
- Other packages used are **EJS** for rendering static files and **PassportJS** for user authentication

npmjs.com/simpligit

OPEN SOURCE CONTRIBUTIONS

- OpenCV [openCV](#): PR # 19301
- OpenCV [openCV](#): PR # 18590
- Google [gnostic](#): PR # 226
- Frappe [erpnext](#): PR # 23933