

# Rushank Shah

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## Technical Skills

### Languages & Databases:

Java, Dart, Javascript, C, Python, OOPs, HTML, CSS, SQL, NoSQL

### Mobile, Web & Desktop Frameworks:

Flutter, ReactJS, NextJS, NodeJS, Django (Basic), Bootstrap, JavaFX, MaterializeCSS.

### Software & Tools:

Git, GitHub, Firebase, MySQL, Visual Studio Code, Android Studio, Arduino IDE, Netbeans, Eclipse, Jupyter Notebook

### Embedded Systems:

Arduino, Sensor integration, IOT, Bluetooth, Motors and other hardware and software-based integration like Ultrasonic, Light and Line following sensor.

## Education

### B.E. IN INFORMATION TECHNOLOGY (EXPECTED MAY-2022)

*Dwarkadas J. Sanghvi College of Engineering, Mumbai. CGPA – 9.452.*

### 12<sup>TH</sup> STANDARD (FEBRUARY 2018)

*Samata Vidya Mandir Junior College of Science and Commerce, Mumbai. (HSC board). Score - 84.62%*

## EXPERIENCE

### HARVARD MEDICAL SCHOOL (JULY 2021– PRESENT)

Flutter and Backend Developer

- Working on a mental health application that will be used by the [McLean Hospital](#).
- Ensured meetings and events are effectively organised.

### COMPUTER SOCIETY OF INDIA (DJCSI) (NOVEMBER 2020 – PRESENT)

Secretary

- Managed the whole committee as a backbone in the core committee.
- Ensured meetings and events are effectively organised.

### METX ROBOTICS (APRIL 2019 – JUNE 2021)

Research and Teaching assistant (Technical – Software)

- Worked in various automation projects like Line Following Robot, IOT based automation system, etc.
- Experienced in teaching over 20 students in STEM education and about 12 students for coding skills in C programming.

## COMPUTER SOCIETY OF INDIA (DJCSI) (SEPTEMBER 2019 – NOVEMBER 2020)

Publicity Team

- Worked towards conducting National level events with enormous participation from all over India.
- Built a large connection of people and have been to various Colleges across Mumbai to publicize events and make them a successful one.

## TRINITY – DJSCE (FEBRUARY 2020 – APRIL 2020)

Captain of the IT Department – 2020

- Lead the whole inter-department cultural competition which is almost about 2 months long.
- The team secured runner's up position with a minimal amount of budget and resources.

## Projects

### VIRTUAL LABS

A complete app-web based virtual simulation of Science experiments for secondary section students which is hosted at olabs.edu.in repository in collaboration with CDAC. (Technology used – Flutter, ReactJS and Rive)

### HEALTHCARE ECOSYSTEM

A complete online based Web-App ecosystem for healthcare management system with a QR based authentication and cloud storage for each record and reports. It also had features like Mental health tracking using personal diary and WhatsApp based Chatbot for immediate support. (Technology used – Flutter, VueJS, NodeJS, MongoDB, ExpressJS and Python)

### COURSE IT

A full-fledged online learning platform contains numerous features aiming to improve the e-learning system, right from analytics to achieving abstraction and various customization for students/professors. We developed a website as well as a cross-platform mobile application. (Technology used – Flutter, ReactJS, NodeJS, Redis, MongoDB, Firebase Storage, ExpressJS and MaterializeCSS)

### AYURVEDA CLINIC MANAGEMENT SYSTEM

A custom Desktop Application built for an ayurvedic doctor for automating his data management system and custom PDF generator which he could use to print and share his prescriptions. (Technology used – JavaFX, Apache PDFBox and MySQL).

### U-CONNECT

A Cross platform (Android and iOS) application for real time chatting and features like Video calling and image sharing. (Technology used – Flutter, Firebase, Agora RTC)

*\*Apart from these projects I have also worked on various hardware-based projects in my internship which include IOT and Automation with the use of complex hardware like Servos, Arduino, Bluetooth and WiFi modules, etc. I have also developed mobile apps in different domains like Augmented Reality, Bluetooth control and IOT based apps.*

## Achievements and Extra-Curricular

- Selected as a **MITACS Globalink Intern 2021** for a 4-month Research internship focusing on Optimizing Worlds-In-Miniature for Mixed Reality Applications at **the University of Calgary at Alberta** but couldn't attend it due to COVID-19 pandemic. **[LOR]**
- Secured 4<sup>th</sup> place in **Scholastic Robotics competition** organised by IIT Bombay (National level)
- **Winner** at CodeIt 2020 organized by E-Cell, DJSCE in association ACM DJSCE and **Finalist** in Hack the Hourglass Hackathon organised by IEEE-MAIT and DotSlash 4.0 organized by NIT Surat.
- Written a **research** thesis under METX Robotics for **Line following Robot** using PID based Algorithm.

- Cleared with **first division with distinction** in Bal Junior and Bal Senior in Keyboard organ from Bharatiya Sangeet Samiti.
- **Managed** a complete event at NESCO Exhibition centre for METX Robotics. (3-day long event).
- Completed **Machine Learning Specialization** course from Coursera offered by **Google Cloud Platform**.
- Writes **Blogs on Medium** to give back to the open-source community.
- Participated in **Business Plan competition** organised by D.J. Nirmiti in collaboration with ISME and DJSCE.