

# Viranch Patel

Indian Institute of Technology, Goa

Fourth Year Undergraduate, Computer Science and Engineering

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A final year Computer Science student with excellent problem-solving skills and the ability to perform well in a team. Passionate about coding and want to start the career as a Software Professional.

## Education

BTech, Computer Science and Engineering: Indian Institute of Technology Goa	CGPA: 8.91/10	2018 - PRESENT
Class 12, GSEB: Paramsukh Vidhyamandir, Surat	Aggregate: 87.6 %	2017 - 2018

## Experience

### MathWorks

(June 2021 - Nov 2021)

[Software development Intern]

- Worked on automating the connection between a Linux server and Windows machines to run the tests specified by the user using Node.js, RDP protocol, and PyAutoGUI library for **UI Automation**.
- Worked on implementing the **test automation strategy** for the MATLAB-Actions plugin which is used in the **Continuous Integration (CI)** process.
- Implemented the **test strategy** using **Cucumber**, **GitHub-actions**, **Java**, and **Rest Assured API framework**.
- Designed and developed SSO (Single sign-on) feature for one of the existing Node-React App by using internal APIs and JavaScript.
- Got familiarized with **AGILE** and **DevOps** methodology of Software Development lifecycle while interning.

### FoodWagon Private Ltd.

(May 2020 - June 2020)

[Web Development Intern]

- Worked in a team of three for the backend of the website. The Functionality of the website is similar to an e-commerce website.
- Technologies Used: **Django**, **PostgreSQL**, **Python**, HTML, CSS.
- Built User, Customer, Cart, Order, and various other models in a correct hierarchy and implemented functionalities such as add to cart and checkout page and filters such as the products are available in those dates or not etc.
- Integrated a **payment gateway** using Paytm.

## Projects

### Abstractive Text Summariser [[Link](#)]:

(Dec 2020 - Jan 2021)

- In a group of three, developed and implemented a standard **LSTM sequence-to-sequence Encoder-Decoder attention model** to summarize text in Amazon Food Reviews Dataset.
- Used **Keras** to implement tokenization, word embedding, E&D neural network using dropout layers and early stopping for development.
- Contributed in data pre-processing, word embedding, model creation and training.

### All In One | Every College Student's Website [[Link](#)]:

(June 2020 - July 2020)

- Developed a Full-Stack web application using **ReactJS**, **NodeJS** and **MongoDB** to help students share information about projects, work experiences and connect with their seniors and other students.
- Implemented backend of questions, answers posting for the 'Question Page', and upvote, downvote functionalities, front-end of 'To-do List Page' and some functionalities in 'Interview Page'.
- Created robust and secure **REST APIs** and **integrated Google and GitHub's strategies** for third party O-auth authentication using **PassportJS's** authentication middleware.

### Cleanliness Monitoring System [[Link](#)] [[Report](#)]:

(Oct 2019 - Nov 2019)

[Under guidance of - Prof Nandakumar Nambath (IIT Goa)]

- Designed and executed a Finite state Machine** on an Arduino and FPGA board using VHDL and Arduino language to keep track of Cleanliness status of different wings of Hostel.
- The machine shows the daily cleanliness status of all the wings and sends the report to concerned authorities via SMS.

## Skills

Programming languages:	C++, Python, Java, JavaScript.
Software:	Git, Jenkins, Gitlab, Postman, Latex, GitHub-actions, GitHub.
Web Development	Server-side: Node.js, Django   DB: PostgreSQL, MongoDB, SQL   Client-side: HTML, CSS. React.js (basics).
Key Skills:	Data structures and Algorithms, Web Development.
Relevant Classwork:	Computer Networks, Design & analysis of algorithms, Data structures & algorithms, Operating System, Artificial Intelligence, Fundamentals of Machine learning.
Other Skills:	Critical thinking, Problem-solving, Communication, Time management, Teamwork, Quick learner, Collaboration.

## Positions of Responsibilities

Go Myno (Coding Club):	Core Member of Go Myno (Coding Club), IIT Goa	(Aug 2019 - Aug 2020)
Student Mentorship Program:	Selected to mentor 4 students	(Aug 2019 - June 2020)
ArchiTechs Club Member:	Member of ArchiTechs (Web & app development club), IIT Goa	(June 2019 - Dec 2019)

## Achievements

- Secured rank **1** in GOC (Intra-college coding competition) among 100+ participants (2021)
- Secured an all India rank **3603** out of 0.17 million candidates appeared for JEE Advanced 2018 (2018)

## Extracurriculars and Hobbies

- Hosted several events in college (Game of Codes (under Go Myno club), Intro to computer hardware (under Go Myno club)).