Viranch Patel
Indian **I**nstitute of **T**echnology, **G**oa

Fourth Year **Undergraduate**, **Computer Science and Engineering**
Add: 63, Mahavir Nagar, Surat, Gujarat
e-mail: vir4nch5673@gmail.com
Mobile: **+91 9714800526**
LinkedIn: **Link** / CodeChef: **Link** / GitHub: **Link**

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 (June2021- Nov2021)
[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 cases 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.

FoodWagon Private Ltd. (May2020- June2020)
[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]: (Dec2020 – Jan2021)
- 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]: (June2020 – July2020)
- 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 RESTful APIs and **integrated Google and GitHub's strategies** for third party O-auth authentication using **PassportJS's** authentication middleware.

Cleanliness Monitoring System [Link] [Report]: (Oct2019 – Nov2019)
[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	Node.js, Django, PostgreSQL, MongoDB, HTML, CSS. React.js (basics).
Key Skills:	Data structures and Algorithms, Competitive Programming, Web Development.
Relevant Classwork:	Design & analysis of algorithms, Data structures & algorithms, Computer Networks, Operating System.
Other Skills:	Critical thinking, Problem-solving, Time management, Teamwork, Quick learner.

Positions of Responsibilities

Go Myno (Coding Club):	Core Member of Go Myno (Coding Club), IIT Goa	(Aug2019-Aug2020)
Student Mentorship Program:	Selected to mentor 4 students	(Aug2019-June2020)
ArchiTechs Club Member:	Member of ArchiTechs (Web & app development club), IIT Goa	(June2019-Dec2019)

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)).