

# KUNAL KUMAR JHA

Full Stack Web Developer — Automation — Graphical Designer

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## Education

### Vellore Institute of Technology

*B. Tech in Computer Science and Engineering, CGPA: 9.17/10 (till 6th sem)*

**June 2019 – Present**

*Chennai, IN*

### Sri Pratibha Junior College

*Senior Secondary, Score: 96.5%*

**April. 2017 – May 2019**

*Hyderabad, IN*

## Experience

### PupilFirst (AICTC recognised)

*Full Stack Developer Intern and Open Source Contributors*

**May 2022 – Present**

*Remote*

- Optimised the User Interface for smaller and medium display size devices and improved Lighthouse scores for responsiveness
- Developed a service to cancel the a set of unit tasks daily on a product in development in order to decrease time needed for team members to identify and fix bugs/issues.
- Explored ways to visualize and analysis to read the data from photos of a 5 para monitors in the ICU centers all across India.

### Procial Network

*Full Stack Web Developer Intern*

**July 2021 – November 2021**

*Remote*

- Presented and implemented suggestions requested from real world stack holders along with 2 other interns and one of the top performing intern.
- Implemented browser based push notification framework in node.js and integration with present react application using service workers.
- Integrated global state management like redux with thunk to manage the data retrieved by the APIs.

### Spark Foundation

*Web Developer Intern*

**February 2021 – March 2021**

*Remote*

- Developed a 3rd party payment gateway full stack Application using React.js, Node.js, MongoDB and Express. that integrated RazorPay as the payment gateway for collecting donation for the charity.
- Customized automated email, designed and developed a lightweight, interactive user interface using Three.js.

## Projects

### Oxy-cure | *React, Node.js, MongoDB, LeafLet*

**April 2021 – May 2021**

- Developed an oxygen management system on visualised on maps for easy querying and easy accessibility.
- Implemented secure http-only cookie based JWT authentication to avoid any XSS or cookie hijacking attacks as user's location was very sensitive information.
- Processed the user's location data for easy retrieving and storing data, also optimised the geo-spatial queries for faster and accurate response from the MongoDB

### Clickster | *React, Node.js, Socket.io, Express*

**May 2022**

- Created an highly customised browser based multiplayer game using web sockets, was able to handle 6 concurrent games played simultaneously on node server serving the clients.
- Dockerized the application for easier deployment and testing purposes, implemented proper react toastifier for the better user experience

### Trano | *Python, Django, Celery*

**March 2022**

- Developed a online ticket checking framework which reallocates the tickets if the person has not boarded the train.
- Designed and implemented point based ticket reallocation mechanism for giving priorities based upon gender, age, distance, relative distance of the destination, implemented non-blocking background tasks to reallocate the seats for the passengers.

### Brezita | *Flask, Tensorflow, Colab*

**November 2021**

- Created an semi-automated captcha cracker tool using Convolutional Neural Network with a decent accuracy of 88%.
- Deployed the captcha detecting model to flask server and created a API to serve the same model for different applications.

**Caber** | *Php, MySql, Bootstrap, JQuery*

**April 2020**

- Implemented a Webapplication that can cluster the users on the basis of date of travel and location, so they can easily cab a pool, and get a good company on the way
- Processed user inputted information in the back-end of the app to return a list of people and their basic information to contact for cab pooling.

**Insta-Fier** | *Python, Selenium*

**May 2020**

- Python Script using Selenium that automates the list of all the new messages and person who shared their posts which is automated using a bot.

## Technical Skills

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**Languages:** Python, Java, C, HTML/CSS, JavaScript, TypeScript, SQL

**Developer Tools:** VS Code, Digital Ocean,

**Technologies/Frameworks:** Linux, GitHub, Docker, React, Django

## Leadership / Extracurricular

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### CYSCOM VITC

**November 2021 – Present**

*General Secretary*

*Vellore Institute of Technology*

- Led a student chapter with 100+ active members to work towards goals that improve and promote the cyber security awareness and knowledge to prevent any security attacks.
- Managed national level hackathon *Tetraflip* which had gathered over 500+ participants from all over the india.
- Organised including planning, operations, hospitality and overall coordination, have organised 6 events (in both online and offline mode) with almost 100+ active participants in all the event.

### Dramatics Club of VIT Chennai

**November 2021 – Present**

*Performer — Co-writer*

*Vellore Institute of Technology*

- Secured 1st position in overall best play category at Drama League an annual stage play fest organised by Dramatics Club of VIT Chennai.
- Bagged 3rd runner up position in overall best act category at RVCE, Bangalore

### Technovation

**Summer 2021**

*Mentor*

*Vellore Institute of Technology*

- Mentored a group of 3 high school student in for a international level hackathon.
- Our team was the only team selected from the Chennai Region