

# Justine kizhakkinedath

Front end Web developer with experience in system programming

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## ABOUT ME

In one word, *Explorer*

I like to keep on learning new things, may it be a subset of upcoming web technology or a whole new foreign language.

Facing new challenges every day gets me out of my bed.

## EXPERIENCE

### Python app developer, Pune

April 2019 - May 2019

I was hired as a contractor to develop a RaspberryPi based Python app for a company. The app works on a RaspberryPi and when it is connected to a DSLR camera it automatically uploads photos in it to specified remote server while using the camera.

## EDUCATION

### P.V.G's College of Engineering and Technology, Pune — Bachelor of Engineering (Computer)

2015 - 2019

## PROJECTS

### Sudoku solver — Python app for solving Sudoku

I created a CLI app to solve Sudoku using probability determination. It works by calculating the aggregate probability for each number across all three blocks - vertical, horizontal and its respective 3x3 block.

### Compare internet plans — Web app to compare internet plans of different ISP's

I created this web app to solve a problem I had. I wanted a tool to compare any 2

## SKILLS

HTML, CSS and JS

Vue.js, Svelte

Sapper

Python, Rust

Bash scripting, Vim

## LANGUAGES

English

Hindi

## EXTRA CURRICULAR

Team head ACES 18-19

Member of ASCI 16-17 committee.

University level college festival organiser.

Motion graphics artist and Video Editor.

(or more) internet plans based on their speed, bandwidth and its cost. I couldn't find anything like this on the web.

It takes 3 inputs per plan from the user and calculates the *ValueForMoney* score. It works with FUP and NonFUP based plans and can compare against each other.

Licensed under MIT License. Repo link [Gitlab](#). Live at [link](#).

### **Autonomous Drone for human detection and tracking — Python based app using TensorFlow ML and drone navigation in real time**

We created a drone which uses its onboard RaspberryPi and a camera to analyse its footage in real time and track a specified human target and follow them.

It analyses the direction in which the target is moving and changes its motion vector accordingly.

This was our *Engineering project*.

### **justine.kizhak.com — Responsive web app created using Svelte/SapperJS and TailwindCSS**

I created a static web app from scratch as my personal website. It's super performant and has the least footprint. It's responsive upto 4K. It includes client side prefetching.

Licensed under MIT License. Repo link [Gitlab](#). Live at [link](#).

### **Create v1 — Python app to create a Gitlab project from your terminal using a YAML config file**

The app uses Gitlab's REST API to create your project, its labels, project boards, milestones, init your local git repo, add files, commit and push to Gitlab from your terminal on your computer. And all you have to do is create a YAML file.

Licensed under MIT License and available on [pypi.org](#). Repo link [Gitlab](#).

### **Header3 — Emacs package for automatic header creation**

Every file inside a project must conform to a format specified by the project license. This package will do all the boring stuff for you like adding preamble, timestamps for file-created and updated, add the URL of the project, your name, commentary, changelog etc.

Licensed under GPLv3 License. Repo link [GitHub](#).

*Details about other projects are on my website.*

## OTHER WORK EXPERIENCE

### **Freelance video editor, Pune**

January 2018 - March 2018

I worked as a video editor on contract for a travel agency to produce their promotional video for Youtube.

### **Motion graphic artist, Pune**

August 2017 - September 2017

I took a contract to produce a Motion Graphics based Product video for a Medical Device company.

It involved in communicating with clients, understanding what they want, discussing payment, and delivering the product under a stressful deadline.

## PUBLICATION

### **Smart Drone Implementing Detection And Tracking Of Humans**

April 1 2019 - Journal of Emerging Technologies and Innovative Research

Real time human detection and tracking by a drone under a dynamic environment using a lightweight image processor onboard.

[Read the paper.](#)