

# Parvat Raj Singh

☎ (+91)7000229783 | ✉ parvat.raj2@gmail.com | 💻 parvatraj | 🌐 parvatraj2 | 🌐 parvatraj.tk

## EXPERIENCE

### Ultra-Tech Laboratories Pvt. Ltd.

Jan. 2021 – Jun 2021

#### Software Engineer Intern

Durg

- Design and build remote temperature monitoring system for furnace **reducing system cost by 30%** by implementing open-source development kit. **Technology : C++, CSS and HTML, NodeMCU(ESP8266).**
- Working as a part of team responsible for design and build software to read TLD badges. TLD badges provides record of radiation exposure(measure gamma, x-ray, beta radiation exposure)
- Designed animated graph to plot real time data and **designed a bar code reader** that **reduce complexity of manual data entry**; boosted productivity by 20%. **Technology: Python, Tkinter, ggplot, OpenCV.**

### Span Universal Pvt. Ltd.

Jul 2020 – Dec 2020

#### Electronic Engineer Intern

Raipur

- Developed various **educational projects** based on open-source **technologies(Ardunio, NodeMCU, Raspberry Pi)** and conducted workshop on college level.
- Produced 10+ video tutorials explaining fundamental & functionality of circuit design, microcontroller(ATmega328P) & sensors.
- Developed **product used in Covid-19 period** like Handsanitizer Dispenser, UV Sterilizer Box, Full Body Disinfection Sanitizer Chamber.

## PROJECTS

### Peer-to-Peer Video Chat App

- Build a peer to peer video conference app using **WebRTC** protocol. Implement **Firebase as signaling server** to transfer SDP offer.
- **Technology: JavaScript, WebRTC, STUN, ICE, Firebase**

### Movie Recommendation System

- Created content based movies recommendation system. Data cleaning and steaming for creating features and use **scikit-learn** library for vectorization and cosine-similarity to build model. **[Demo]**
- **Integrate the model into interactive WebApp** and deploy on heroku. **Technology: Python, scikit-learn, Streamlit**

### Grocery-Store Management WebApp

- Design three-tier web-application for grocery store management developed using **Python REST APIs With Flask.**
- Created user interface, build Rest API and design database schema. **Technology: Python, HTML/CSS, JavaScript, MySQL**

## EDUCATION

### Bhilai Institute of Technology, Raipur

July 2016 — July 2020

*Bachelor of Technology in Electronic and Telecommunication; CPI: 7.4/10*

**Coursework:** Data Structures and Algorithms, Operating System Engineering, Computer System Engineering.

## SKILLS

**Languages :** C, C++, Python, JavaScript

**Database :** MySQL, MongoDB

**Tools:** AWS, Linux, npm, git, Oracle VM VirtualBox