Yugant Singh

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Education

Vellore Institute of Technology   **Jul. 2019 – Ongoing**
Electronics and Communication Engineering – 8.64/10   *Bhopal, Madhya Pradesh*

St. Paul's Church College   **May 2018**
Senior Secondary – 81/100   *Agra, Uttar Pradesh*

Technical Skills

Languages: JavaScipt, Python, Java, SQL
Developer Tools: VS Code, Google Colab, Jupyter Notebook
Technologies/Frameworks: React.js, Next.js, Tensorflow, Bash, Linux, Github

Projects

Clear Vision | *Github*   **Apr. 2023**

ClearVision is a project that uses advanced machine learning techniques, implemented with TensorFlow and Google Colab, to improve the visibility of images taken in extreme weather conditions such as rain, fog, and underwater. The project also utilizes React for its front-end interface

- *Stack:* **Python, TensorFlow, Raspberry Pi, Google Colab, React**
- Led a team of 3 members in the development of the ClearVision project as part of your final year project.
- Trained machine learning models using TensorFlow and Google Colab to improve the visibility of images taken in extreme weather conditions, which works 40% more efficient than researched AOD networks.
- Contributed to the front-end development of the project.

Job Hunt | *Github* *Live*   **Mar. 2023**

The application allows users to search for jobs, view popular and nearby job listings, and filter results by job type and provides a convenient and user-friendly way for job seekers to find and apply for jobs.

- *Stack:* **React Native, Rapid API, Expo, Metro**
- Single-handedly developed the Job Hunt mobile application, utilizing skills in React Native and the Rapid API.
- Published the application on Expo, making it available for users to download and use in their job search.

NPM Package – @yugant-hooks | *Github* *Live*   **Oct. 2022**

A collection of custom React Hooks that can be used to manage state in your React Applications.

- *Stack:* **React, JavaScript, NPM**
- Successfully developed yugant-hooks, a custom hooks library for React that includes a collection of hooks for managing state in React applications, such as use-title, use-click, and use-network.
- Published the package on the NPM public repository, making it available for other developers to use in their own react projects.

Leafy Lane | *Github* *Live*   **Sep. 2022**

A fully functional Plant based E-commerce website, with add to cart and checkout functionality powered by Stripe payments.

- *Stack:* **Next.js, Sanity.io, Stripe, Vercel**
- Developed a fully functional e-commerce website using Next.js, Sanity.io, and Stripe Payments.
- Implemented features such as dynamic product addition through Sanity, real-time updates, and a Stripe Payments checkout with multiple shipping rate options.
- Utilized the Next.js routing system to create an intuitive and user-friendly shopping experience for customers.

Health Plus | *Github* *Live*   **Apr. 2022**

A complete health app that connects hospitals, doctors, and patients and helps you to keep track of your health and fitness.

- *Stack:* **Next.js, React, Tailwind, MongoDB, Vercel**

- Spearheaded a cross-functional team of 8 members to successfully develop and launch Health+, an innovative app that facilitates effortless communication and collaboration between hospitals, doctors, and patients.
- Constructed the frontend utilizing cutting-edge technologies such as React, Next.js, and Tailwind CSS, and seamlessly integrated it with backend services.
- Demonstrated the app to the reviewers and received positive feedback and recognition for its functionality and usability.

Home Defender | *Github*   **Jan. 2022**

HomeDefender is a project that utilizes cutting-edge technology to process video feeds from a camera module and accurately classify objects in real-time, all while transmitting the feed seamlessly over WiFi.

- *Stack:* **OpenCV, Tensorflow, Google Colab, Arduino and ESP32 camera.**
- Created a low-cost system that can easily detect and classify objects, providing users with an affordable and effective home security solution, even cheaper than current market offerings.
- Implemented seamless transmission of the video feed over WiFi, providing users with real-time updates on detected objects.
- Demonstrated the app to the reviewers and received positive feedback and recognition for its functionality and usability.

CERTIFICATIONS

IT Automation With Python Professional Certificate, Google | *Coursera*   **Sep. 2022**
- ***Professional Six-course certificate, developed by Google.***
- Managing IT resources at scale for physical machines and virtual machines in the cloud
- Automating tasks by writing Python scripts to speed up workflow by 80%
- Using Git and GitHub for version control.

TensorFlow Developer Professional Certificate, DeepLearning.AI | *Coursera*   **Jul. 2022**
- ***Professional Four-course certificate, developed by DeepLearning.AI.***
- Best practices for TensorFlow, a popular open-source machine learning framework.
- Handling real-world image data and exploring strategies to prevent overfitting, including augmentation and dropout to increase efficiency of models by 30%
- Building natural language processing systems using TensorFlow.

Full-Stack With React Specialization, Hong Kong University | *Coursera*   **Nov. 2020**
- ***Four-course specialization certificate by Hong Kong University of Science and Technology***
- Designing a full-fledged Web client application using Bootstrap 4 and React.
- Designing a hybrid mobile application using React Native.
- Developing server-side support for the web application using Node.js, ExpressJS together with database support using MongoDB.

ACHIEVEMENTS

Leetcode   ***Leetcode***
- Mastered over 400 challenging questions on Leetcode and enhanced my problem-solving skills.

GFG Club   **2020 – 2021**
Video Editing Head
- Held a pivotal role as the Video Editing Head and a key member of the Web Development Team for the GFG club.
- Expertly crafted UI/UX mockups and prototypes for the club's projects utilizing industry-leading tools such as Figma and Adobe XD
- Mentored and delivered engaging seminars and workshops on web development and video editing for club members and fellow students.

Global Hack Week   **Sept. 2022**
Major League Hacking
- Successfully participated in and completed the prestigious Global Hack Week organized by MLH, demonstrating my technical skills and collaborative abilities.
- Won the award for the best front-end website for community.