

Baibhav Singh

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EDUCATION

Bachelor of Technology - VIT Vellore, Tamil Nadu

Major: Computer and Science Engineering (GPA: 7.7/10)

July 2017 - June 2021

Intermediate - GIHE, Dhapakhel, Lalitpur

Major: GCE A LEVELS Math and Computer Science

July 2014 - July 2016

TECHNICAL SKILLS & TOOLS

- **Experienced:** Problem solving, Object Oriented Programing, Open CV, Arduino, GPU/CPU architecture, SDLC, Express, Routing.
- **Familiar:** Digital logic and Design, MATLAB, R, Unity, Networking, Ray tracing, Pro discover.
- **Programming Languages:** C, C++, Nodejs, Python, Java, JavaScript, React.
- **Languages:** English, Nepali, French.

TECHNICAL PROJECTS & RESEARCH

Smart Stick for Visually Impaired Person

VIT Vellore

August 2019- October 2019

- Achieved the verification of obstacles in Infront of a blind person and live location tracking.
- Integrated ultrasonic sensors, sim808 module, buzzer with Arduino uno board to develop an IoT-based stick for a visually impaired person with live location tracking.
- Successfully implemented the hardware architecture & coding part.

Intelligent Health Monitoring System with pulse oximeter analysis

VIT Vellore

September 2020- Present

- Designed and implemented IoT-based health monitoring system with the help of Arduino Mega, temperature sensor, GPS.
- Tested and verified the entire architecture successfully on Arduino IDE.
- Successfully programmed the sensors and Arduino Board with a single Cpp code.
- Successfully assembled and tested the prototype in real-time with Arduino mega.

Criminal Detection Using Facial Recognition

VIT Vellore

January 2020- April 2020

- Designed python application to detect criminal using image file as well as live surveillance.
- Python GUI, Xampp server, PyMySQL, OpenCV modules are the major takeaways from the project.
- Designing of the GUI setup and creating database for the project.

Design and development of Node Js projects

VIT Vellore

January 2021- Present

- Designed implemented app like: - Notes app, Weather app, Task app & Real-time chat app.
- Knowledge of different libraries, Express, APIs, Socket.io, and NoSQL was employed and enhanced during the entire project.
- Successfully assembled and tested the prototype in real-time with Open weather & map box API.

EXPERIENCE

The Jane Goodall Institute Nepal

Intern

Lalitpur, Nepal

July 2016 - December 2017

- Engaged in Kathmandu Metropolitan City's Urban Dog Population Management Project (MANUMITRA) and Roots &Shoots Environmental Education Program.
- Conducting Knowledge Attitude and Practices (KAP) survey in Manumitra Project and assisting school students in their Service-Learning Projects in Roots &Shoots program. Represented GIHE Roots &Shoots in Roots &Shoots Gathering event organized on October 24", 2016 during Dr. Jane Goodall's visit to Nepal.

RELEVANT COURSEWORK

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|---------------------------------------|-------------------------|-----------------------|
| 1. Network and Communication | 2. OOSD | 3. Internet of Things |
| 4. TOC and Compiler Design | 5. Software Engineering | 6. Digital Forensics |
| 7. Parallel and Distributed Computing | | |

COURSES

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|---|---|
| 1. Divide and Conquer, Sorting and Searching, and Randomized Algorithms | 2. Java Programming: Arrays, Lists, and Structured Data |
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HOBBIES

Football, Movies, Travelling, Sportsmanship, Social Services, Reading.