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 ALEVELS 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 Individual
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 a 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*

- Implemented IoT-based health monitoring system with the help of Arduino Mega, temperature sensor, GPS and Max30100.
- Tested and verified the entire architecture successfully on Arduino IDE.
- Successfully programmed the sensors and Arduino Board with a single CPP code.
- 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*

- Created and implemented app like: - Notes app, Weather app, Task app & Real-time chat app.
- Knowledge of different libraries, Express, Mongoose, 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   Lalitpur, Nepal
Intern   *July 2016 - December 2016*

- Engaged in Kathmandu Metropolitan City's Urban Dog Population Management Project (MANUMITRA) and Roots &Shoots Environmental Education Program.
- Represented GIHE Roots &Shoots in Roots &Shoots gathering event organized on October 24th, 2016 during **Dr. Jane Goodall**'s visit to Nepal.

RELEVANT COURSEWORK

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

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

HOBBIES

Football, Movies, Travelling , Social Services, Reading.