

Abhinav Sandru

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EDUCATION

2020 – present **B.E - Computer Science and Engineering**, *Chaitanya Bharathi Institute of Technology* ☑
HYDERABAD, India CGPA-8.86
• Object Oriented Programming in Python, Machine Learning, Natural Language Processing, Artificial Intelligence, Image Processing and Computer Vision

SKILLS

Technical Skills

C, Python, HTML5, CSS, JavaScript, Bootstrap, ChartJS, Oracle SQL, phpMyAdmin, Django, Flask, Arduino IDE, Packet Tracer

PROFESSIONAL EXPERIENCE

07/2023 – present **IOT Developer Intern**, *Vanix Technologies PVT. LTD.* ☑
06/2023 – present **Research Intern**, *Pentagram Research Center PVT. LTD.* ☑
09/2022 – 10/2022 **IOT Developer Intern**, *Tek Certify Training Solutions PVT. LTD.* ☑
12/2021 – 01/2022 **Campus Ambassador**, *National Engineering Olympiad* ☑

PROJECTS

Smart Mining Uniform, *Skills : Arduino, ESP32, PhpMyAdmin, MySql, Bootstrap, HTML5, CSS, Packet Tracer, ChartJS* ☑

This project is about creating smart uniforms for mining workers for increased safety. As part of this, various sensors are embedded in to the uniform. These sensors securely transmit data to managers about hazardous conditions like methane levels, CO2 levels, etc., and the workers' physical conditions like O2 levels, Heart Rate, etc., improving overall safety of the mining worker.

Smart SOS helmet ☑

This project upgrades regular biker helmets by enabling it to send SOS calls, messages in case of accidents. As part of this, multiple pressure sensors are embedded into the helmet. Upon pressure exceeding the threshold, these sensors will send an SOS (a missed call, an SMS with location) to a designated contact.

Safety Monitoring System for Sewage Workers ☑

This project is about creating a device for sewage workers for increased safety. As part of this, various sensors are embedded in to the uniform. These sensors securely transmit data to managers about hazardous conditions like methane levels, CO2 levels, etc., and the workers' physical conditions like O2 levels, Heart Rate, etc., improving overall safety of the sewage worker.

Household Rooftop Solar Designer, *Skills : Python, Tkinter* ☑

A software that helps designing the configuration of the solar panel system for a household based on the yearly consumption of power and the climate of the region. This system gives information on the number of solar panels required, the cost of the system and the ROI

Simple Expense Manager, *Skills : HTML5, CSS, Javascript* ☑

This project created a front end for a simple expense manager. It provides UI for tracking daily expenses, bills, investments and losses

Rajan Transform Web Application, *Skills : HTML5, CSS, JavaScript, Bootstrap, Flask, ChartJS* ☑

The project aims to build algorithms for the Rajan Transform and the Inverse Rajan Transform and deploy these algorithms to calculate the Transform efficiently. Rajan Transform has a lot of applications in various fields including image processing, and pattern recognition

PYTHON CERTIFICATIONS

Python, *HackerRank* ☑

HackerRank Python Rating : 5 star

IOT CERTIFICATIONS

Introduction to IOT, *Cisco Networking Academy* ☑

Arduino Foundations, *LinkedIn Learning* ☑

Packet Tracer, *Cisco Networking Academy* ☑

NDX Linux Essentials, *Cisco Networking Academy* ☑

OTHER CERTIFICATIONS

Artificial Intelligence Ethics in Action, *LearnQuest* ☑

Digital Transformation, *University of Virginia* ☑

Innovation Through Design: Think, Make, Break, Repeat, *The University of Sydney* ☑

AWARDS

Neo Codeathon 98th Rank, *iamneo.ai* ☑

07/2022

ORGANIZATIONS

Engineers Without Borders (EWB), *Member* ☑

Society of Automotive Engineering (SAE), *member*

