Siddhesh Nandurkar

Full-Stack Software Developer

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Amravati, MH, India

https://siddhesh.me

https://www.linkedin.com/in/siddheshnan/

https://github.com/SiddheshNan

I'm a self-motivated full-stack software developer. My passion for technology and programming drives me to constantly learn and improve my skills, and I'm excited to bring my knowledge and expertise to a dynamic and innovative team. I am always looking for new challenges and opportunities to grow and make a positive impact.

SKILLS

- Python
- NodeJS
- React and React Native
- MySQL / DBMS
- IoT & Sensors
- Full-Stack Development
- Linux
- OpenCV
- HTML/CSS/JavaScript
- Go
- MongoDB
- ESP32 & Raspberry Pi
- Git & GitHub
- Docker
- Cloud Computing
- Numpy / Pandas

EDUCATION

Bachelor's in Information Technology — Aug 2019 – Jun 2023
Sant Gadge Baba Amravati University (SGBAU) — Amravati, India
CGPA: 8.93

HSC in Digital & Applied Electronics — Aug 2017 – Mar 2019
Brijlal Biyani Science Jr. College — Amravati, India

PROFESSIONAL EXPERIENCE

Full-Stack Developer (Part Time) — Aug 2020 – Mar 2022
Aim Technologies — Amravati, MH, India

- Worked as a Full-Stack Developer for multiple educational projects.
- Had Extensive hands-on experience in developing frontend and backend of applications using NodeJS & ReactJS.
- Worked on multiple projects involving OpenCV, Raspberry Pi & Python.
- Was also responsible for deploying various projects on the AWS platform.

Data Science Internship Mar 2022 – Apr 2022
Obdurate Technologies Amravati, MH, India
- Gained valuable experience working on projects that utilize a range of data science and programming tools.
- Had used Python programming language to perform data analysis, build machine learning models, and created data visualizations.

Internet of Things Internship Oct 2019 – Feb 2020
Aim Technologies Amravati, MH, India
- Developed various IoT projects & Gained experience in programming languages and IoT platforms such as Arduino, and Raspberry Pi.

PROJECTS

ThingESP - A Cloud Based WhatsApp Automation Platform for IoT
https://thingesp.siddhesh.me
- The ThingESP Platform allows users to operate IoT devices like ESP32, ESP8266, and Raspberry Pi using WhatsApp.
- It is a Live project and has established a user base of **more than 4000+ users worldwide**.
- Built the platform using NodeJS, React, MongoDB, C++, MQTT Protocol, and Docker to create a scalable and **production-grade application**.

A Platform for PUC Vendors to Manage their Clients & Send Automated Reminders
https://puc.siddhesh.me
- The platform is built for PUC vendors to manage their clients and send automated reminders of PUC expiration to the vehicle owners via **SMS** and **WhatsApp**.
- Built using the **MERN stack, Docker and WhatsApp API.**
- This was my final year major project, and the ***project report*** provides the detailed information.

Medor Club – The Healthcare Platform
https://medor.club
User App: https://play.google.com/store/apps/details?id=club.medor.medor
Doctor App: https://play.google.com/store/apps/details?id=club.medor.doctors
- Developed the app using **React Native, MERN Stack, and AWS S3.**
- Designed and developed two apps - one for users and one for doctors.
- Integrated **Razorpay payment gateway** to facilitate subscription plans.
- Deployed the platform on **AWS** cloud infrastructure.

AmbaDevi Temple Aarti App
https://github.com/SiddheshNan/ambadevi-aarti-app
- The app is used for simplifying the process of finding the correct aarti or ashtak.
- **Implemented fuzzy search** algorithm by creating an index of over 100+ different aartis and 150+ ashtaks of the devi, enabling users to quickly find the desired aarti or ashtak by typing in the lyrics.
- Used **React Native** framework to build the app, providing a user-friendly and intuitive interface.

Accishield – An Android Application for Road Accident Rescue
https://github.com/SiddheshNan/accident-detection-app
- Accishield is an Android app developed for road accident rescue, consisting 2 apps - a user app for detecting accidents and a responder app for ambulance drivers.
- The user app sends notifications to nearby ambulance operators and shares real-time locations using **GPS API** and **web sockets**. Then the responder app can view the emergency location.
- The project was developed using **React Native, Node.js.and MongoDB**

ThingsIoT - The Cloud Platform for IoT
https://things-iot.siddhesh.me
- ThingsIoT is a platform that enables users to monitor & control their IoT devices (ESP32, ESP8266, RPi) in real-time using the web interface.
- The platform provides users with **drag-and-drop widgets** and **real-time dashboards** using **React.js**, as well as the **REST API**, and **WebSockets** for interfacing with them.
- Built using **MERN** Stack, **MQTT**, **Protocol Buffers**, **Redis**, and **Docker**.
- The **client library** is built using **Embedded C** for Arduino and using **Python** for Raspberry Pi.

Smart Irrigation System with Leaf Diseases Recognition
https://github.com/SiddheshNan/Smart-Irrigation-system-using-IoT
- Deployed **NodeMCU**, **soil moisture sensors, and DHT11** sensors across the farm to monitor soil moisture levels.
- Developed an **Android application** and **WhatsApp interface** to enable remote operation of the motor and receive notifications.
- Implemented a leaf diseases recognition module using **opencv, tornado and tensorflow CNN,** enabling the identification of plant diseases, viewing of causes, and exploration of remedies.
- Received **first prize** in Aavishkar 2019 at Amravati University as well as a second prize in the national-level Ecothon competition at Sipna COET.

Student Attendance System with Face Mask Detection
https://github.com/SiddheshNan/Web-Based-Student-Attendance-System-using-FaceRecognization
- Developed the project using **OpenCV**, **TensorFlow**, and **NumPy**, which allows teachers to take attendance using a camera.
- Designed a web-based interface using **ReactJS** to view attendance records.
- Implemented a **face mask detection module** that can recognize students even if they are **wearing a mask**, thus ensuring compliance with COVID-19 safety measures.

Skin Disease Prediction using keras
https://github.com/SiddheshNan/skin-disease-prediction-using-keras
- Developed the project using **Tensorflow, Keras, OpenCV and tkinter**.
- Created a Dataset and used TensorFlow Keras to create a classification model.
- An Image is supplied as input & the model provides an output with the skin disease label and accuracy.

ECG-based Heart Disease Diagnosis using Deep Learning
https://github.com/SiddheshNan/dipex-2023-project
- Preprocessed ECG signals to remove noise and artifacts and segmented them into individual heartbeats.
- Got training accuracy of 95.76% and validation accuracy of 95.21% using the PhysioNet Challenge Dataset.
- Classified ECG data into different heart disease categories using the developed model.
- Deployed the model and created a simple and **portable device** using **Arduino UNO** and **ECG sensor** for detecting the heart disease in realtime.
- Showcased the project in the **Dipex 2023** competition.

Smart Parking System & Realtime Number Plate Recognition using OCR
https://github.com/SiddheshNan/py-num-plate-recog
- Developed the project using **Python, OpenCV, DLib, SVM algorithm, MySQL, React, & Tesseract-OCR.**
- The system uses IR sensors to detect vacant and occupied parking slots in a parking area.
- Used a camera placed at the entrance to Parking Space to detect Car Number plates and save their vehicle number in **SQL Database** using a **Raspberry Pi.**
- And depending upon the parking time, a charge is calculated for that car while exiting.

- Developed as a mini project during the 6th semester.

AWARDS

Winner - Aaviskar 2019 (University Level) Competition Dec 2019
Sant Gadge Baba Amravati University

Winner - Vidyotan 2019 (National Level) Web/App Competition Feb 2020
Sipna college of engineering and technology, Amravati

Selected - Smart India Hackathon 2022 Apr 2022
Ministry of Education's Innovation Cell (MIC)

Runner up - Ecothon 2022 (National Level) Hackathon Apr 2022
Sipna College of Engineering And Technology, Amravati

Runner up - Aaviskar 2022 (District Level) Competition Dec 2022
Sant Gadge Baba Amravati University

PUBLICATIONS

Smart Platform for PUC Vendors about PUC Expiration & Reminders May 2023
International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 11 Issue V May 2033

LANGUAGES

English
Full Professional Proficiency

Hindi
Full Professional Proficiency

Marathi
Native or Bilingual Proficiency

INTERESTS

Blogging & Writing (https://blog.siddhesh.me) **Exploring new things** **Reading**

Traveling **Listening to music** **Designing & Creativity** **Visiting Places**