

# Sandipan Dey

<https://sandipan.dev> | [hey@sandipan.dev](mailto:hey@sandipan.dev) | +919836250711

## EXPERIENCE

### DURBIN TECHNOLOGIES

DEVELOPMENT LEAD (SENIOR SOFTWARE DEVELOPER)

Jun '20 – Present | Kolkata, IN

- Developed the complete account management solution for both, normal and business users with portals and billing management built right into it; it supports OAuth2.0 to give third party apps access to specific data from the Account and other first party Apps.
- Designed an one-stop IIoT solution that supports multiple devices, secured encrypted MQTT, Socket.io and several other realtime channels. It can remotely update deployed firmware using this.
- Created online WebRTC SFU based video calling application at scale with chat support, admin-based joining/removal and screensharing.
- Worked with Indian Railways to get OHE measurements using Lidar scanners, created Windows executable and Lidar device to streamline the process.

### QUINCH SYSTEMS PRIVATE LIMITED

FULL STACK INTERN

Oct 2019 – Apr 2020 | Kolkata, IN

- Coordinated with Indian Railways to lead a control center for isolators. Uses relay mechanism to trigger mechanical isolator which rotates and toggles the switches. Deployed at Howrah Railway Station.
- Designed and Integrated an UI for Ventilator Systems (R&D) involving Pip & Peep pressures, flow directions and live-sync with micro-controllers over sockets.
- Developed remote realtime video analysis and alert monitoring system involving Tensorflow Serving to detect fires or human beings in certain locations.

## PROJECTS

### HEALTHBAY | COMPLETE HEALTHCARE SYSTEM

Apr 2020 – Jun 2020 | Kolkata, IN

- Blockchain to store Medical Records, connect to Nearest Ambulance, find nearest Doctors, chat with them and get treatments, fetch probable diseases based on your symptoms and medical history all clubbed together in one beautiful UI.

### PC STREAM | LOCAL ENTERTAINMENT CENTER

Jan 2019 – Present | Kolkata, IN

- Stream media from your desktop/laptop, auto scan and download from torrent, index movies, save subtitles, remember last playpoint.

## AWARDS

2021	1 <sup>st</sup> place	uOttaHack 4 First Overall + Best Use Of Solace PubSub+
2021	1 <sup>st</sup> place	Hoya Hacks 2021 First Place
2020	1 <sup>st</sup> place	Def Hacks 2.0 Winner - Advanced Category
2019	1 <sup>st</sup> place	Winner in Capture The Flag (CTF) Competition at Kolkata

## EDUCATION

### ACADEMY OF TECHNOLOGY

BTECH IN COMPUTER SCIENCE

Jun 2018 | Pursuing

Ongoing Research on Distributed Tokens for Auto Debit during Transportation  
CGPA (till 5th Sem): **9.2 / 10.0**

### MC KEJRIWAL VIDYAPEETH

May 2018 | ISC | 88.2%

May 2016 | ICSE | 92.4%

## SKILLS

### PROGRAMMING

Over 100K lines:

TypeScript • Node.js

Over 50K lines:

Java • Python • C/C++

Interests:

Bitcoin • Rust

### TECHNOLOGY

Git/Github • AWS • GCP • UNIX

Docker/Kubernetes • CI/CD

Postgresql • React.js

Industrial IOT • Automation

## COURSEWORK

### CERTIFICATIONS

Discrete Mathematics (IIT Ropar)

Machine Learning (Andrew NG, Stanford University)

### UNDERGRADUATE

Data Structures & Algorithms

Object-Oriented Programming

Computer Networks

Database Management

Data Science & Artificial Intelligence

## LINKS

Github: [/sandipndev](https://github.com/sandipndev)

Twitter: [@sandipndev](https://twitter.com/sandipndev)

LinkedIn: [/in/sandipndev](https://in.linkedin.com/in/sandipndev)

Email: [hey@sandipan.dev](mailto:hey@sandipan.dev)