Sandipan Dey

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EXPERIENCE

DURBIN TECHNOLOGIES PRIVATE LIMITIED
Development Lead (Senior Software Developer)
Jun 2020 – 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

Year	Place	Award
2021	2nd place	HackUPC Second Overall + Winner iThinkUPC
2021	1st place	uOttaHack 4 First Overall + Best Use Of Solace PubSub+
2021	1st place	Hoya Hacks 2021 First Place
2020	1st place	Def Hacks 2.0 Winner - Advanced Category
2019	1st 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: 9.22 / 10.0
SGPA5: 10.0 / 10.0

MC KEJRIWAL VIDYAPEETH
Grad. May 2018 | CISCE
ISC: 88.2% | ICSE: 92.4%

SKILLS

PROGRAMMING
Over 100K lines:
TypeScript • JavaScript • C/C++
Over 50K lines:
Java • Python • Arduino
Interests:
Solidity • Rust • C#

TECHNOLOGY
Git/Github • AWS • GCP
UNIX • Postgresql • CI/CD
GitHub Actions • 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

SOCIETIES

Lead Organizer at AOT Community
Core Team at DSC AOT
Member of GDG Kolkata

LINKS

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Github: **/sandipndev**
Twitter: **@sandipndev**
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