


# Swarup Dey Sarkar

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## EDUCATION

### Master of Computer Applications (MCA), (2018 - 2021)

Heritage Institute of Technology, Kolkata (Autonomous)  
CGPA: 7.70/10

### Bachelor of Science (B.Sc.), Computer Science (2014 - 2018)

St. Xavier's College, Kolkata (Autonomous)  
Percentage: 58%

## EXPERIENCE

### Society for Natural Language Technology Research (SNLTR), Kolkata — SDE Intern

FEB 2020 - PRESENT

Working as a web developer. I used HTML and CSS and various frameworks in the front end and PHP, jQuery, Ajax, JavaScript in the backend. In one of our projects we developed a translation web app which translates various English terminologies into corresponding Bengali terminologies. Below in the projects section it is discussed elaborately.

### KernelSphere Technologies Pvt. Ltd., Kolkata — Student Intern

JUN 2019 - JUL 2019

Worked on Internet of Things and Embedded Systems using Arduino, Raspberry Pi, Node MCU, etc. Build ATM Pin verifications using Arduino, Home Automation, Smart Waste Management Systems, Smart Irrigation System, and many more.

### Internshala Student Partner, Online — Campus Ambassador

DEC 2019 - MAY 2020

Member of the Internshala's campus ambassador program for Heritage Institute of Technology, Kolkata. During this period, I promoted Internshala and its products successfully in my college.

## PROJECTS

### Translation Web App — Feb 2020 - March 2020

This was one of the internship projects where we designed a translation web app which translates various English Terminologies into corresponding Bengali Terminologies and vice-versa. These terminologies are commonly used in Meteorological departments, Schools and Offices.

### User Admin Authentication System for Data Entry Operations — May 2020 - June 2020

This was another internship project where we designed an User-Admin Authentication and Data Entry System. Various english terminologies were first scraped from newspapers and

## SKILLS

Web Development  
Internet of Things (IoT)  
Embedded Systems  
Android Development  
Machine Learning  
Deep Learning  
Data Science  
Web Scraping  
Adobe Photoshop  
Adobe Illustrator  
Adobe After Effects  
Adobe Premiere Pro  
Adobe Flash  
Sketch-up Pro  
Lumion-8

### Proficiency in:

English, Bengali and Hindi

## LANGUAGE

C  
C++  
PHP  
Python  
HTML/ CSS  
JavaScript  
jQuery  
XML  
SQL  
AJAX  
PL/SQL

## POSITIONS OF RESPONSIBILITY

### Professional chess player

- Won Gold Medal in East Zone Inter Universities' 2016.
- Participated in the Commonwealth Chess Championship' 2015.
- Won Silver Medal in Associations of Indian Universities' 2014.
- Won Bronze Medal in East Zone Inter Universities' 2014.

### Self Taught Artist

- Exhibited Shadow and Substance'2016 at Rabindra Tirtha.

then stored in a SQL Table. Later these terminologies were used as a keyword to store details of them.

**Facial Emotion Detection — Oct 2019 - Nov 2019**

[https://github.com/deysarkarswarup/Facial\\_Emotion\\_Detection](https://github.com/deysarkarswarup/Facial_Emotion_Detection)

Build a simple real-time emotion detector using Keras and OpenCV library. Kaggle Facial Expression dataset was used. The accuracy was around 59%.

**Smart Irrigation System — Sep 2019 - Oct 2019**

This project is all about irrigating my indoor plants in a smart way. I connected the Soil moisture sensor with NodeMcu which has an ESP8266 wifi module. My smartphone was connected over that network and I can remotely irrigate my plants.

**Smart Waste Management System — Sep 2019 - Oct 2019**

This project is made while preparing for a presentation on the wireless sensor network and its application. I created a prototype which demonstrates how a simple use of a smartphone and a few cheap sensors could make our Waste Management System very smart.

**Student Management System — May 2019 - July 2019**

[https://github.com/deysarkarswarup/Student\\_Management\\_System](https://github.com/deysarkarswarup/Student_Management_System)

This was a semester break project under the guidance of our HOD sir. Using Java Swing and JDBC I developed a portal where students and faculty members can register and faculties can share internal marks of the students.

**ATM Pin Verification System — June 2019 - June 2019**

[https://github.com/deysarkarswarup/ATM\\_Pin\\_Verification](https://github.com/deysarkarswarup/ATM_Pin_Verification)

This project was done at the end of our IoT training by Kernel Sphere Pvt. Ltd. Here 8x2 LCD display and 4x4 Keypad were connected over an Arduino. I wrote an Arduino program that verifies if a user entered the correct Pin. There are only 3 attempts after which will have to wait for 10mins to re-enter the password.

**Virtual Classroom — Jan 2017 - July 2017**

<https://github.com/deysarkarswarup/E-Classroom>

This was a final year graduation project. We designed a web portal where students and faculties can register and chat to clear their doubts. There are also eLibrary facilities where students and faculties can access ebooks 24\*7. Using the eNotice feature students could also stay updated to all latest college notices.

**PUBLICATIONS**

***"How does Chess Influenced Marks in Mathematics?"***

PRAKORSHO' 2015, an annual magazine by St. Xavier's College, Kolkata (Statistics Department), Page: 106-113

***"Touring Problem in Chess using Programming Languages"***

X-CRYPTUS' 2017, an annual magazine by St. Xavier's College, Kolkata (Computer Science Department), Page: 59-62

***"When nature puts us into the cage!"***

MEDIUM'2020, an online publishing platform.

<https://link.medium.com/V7kbvGxaq7>

- Artworks were exhibited by Wallbrush'2015 at St. Xavier's College, Kolkata.

**NATIONAL SERVICE SCHEME (NSS)**

Social work and Game events coordinator.

JULY 2014 - JULY 2017

Maria Sneha Sadan School, St. Xavier's School, Gurap

**AWARDS AND CERTIFICATIONS**

- Internal Hackathon winner for SIH' 2020.
- Google Cloud certified on GCP Big Data And Machine Learning Fundamentals on Coursera Platform.
- IBM certified on Data Science on Coursera Platform.
- Multiple Linear Regression with scikit-learn Project Certification on Coursera.
- Predicting House Prices with Regression using TensorFlow Project Certification on Coursera.
- University of Michigan certified on Building Web Applications in PHP on Coursera Platform.
- University of California certified on Internet of Things (IoT) and Embedded Systems on Coursera Platform.
- NPTEL Online Certified on Introduction to Machine Learning by IIT Kharagpur.
- NPTEL Online Certified on Programming in Java by IIT Kharagpur.
- Analytics Vidhya certified in Data Science.
- Internshala online training certified on Programming in Python.