Hello  
I’m Sushovan Mandal, B.Tech student, Computer Sc. & Engg., IIT Kharagpur

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# Skills

**Python, C, C++ 11, Django Frameworks, Java, SQL**; prefer **Linux** environment & **terminal**; version control:-**git, github**; Integrated Development Environments:- **Eclipse, IntelliJ IDEA & derivatives, Microsoft Visual Studio**; advanced code editors:- **Sublime, Atom**; Any Office Suite; **Open-source libraries:-** Python packages, OpenCV, ROS.

# Experience

### National Digital Library, IIT Kharagpur *-* Project Student

## FEBRUARY 2015 - DECEMBER 2016

* **Designed and Developed** prototype sister *web portal* of NDL, for searching and accessing yesteryear Question Papers of Board Exams and Entrance Examinations, single-handedly
  + Used **Django Frameworks** and **MariaDB** database backend.
  + As part of my **B. Tech Project** in Department of Computer Science & Engineering.
* Created **Python** program for **Information Retrieval** from educative content files for **automation** of metadata creation for indexing the files in the Digital Library
  + Used Open-source Python packages like lxml, ebooklib.
* **Automated** conversion of a large batch of metadata between formats.

### SAP Labs India, Bangalore *-* Intern

## MONTH 2013 - JULY 2013

* Interned at **Testing Automation** Department on Proprietary software technologies, in team of 2.
  + Worked on **prototype Windows application** using *C# and Visual Studio* for integrating SAP tool with third-party software suite.
  + Worked on prototype Android application **for testing mobile apps**.

### thelearningpoint.net, work-from-home *-* Freelancer

## JUNE 2012 - JULY 2012

* **Designed and developed** *interactive visual simulations* using [Processing](https://processing.org/) libraries and environment, **proportional to real-time motion characteristics** for few basic mechanics topics including Simple Harmonic Motion, for e-learning purposes.

### Autonomous Ground Vehicle, IIT Kharagpur *-* Junior Developer

## AUGUST 2011 - MARCH 2013

* Acquainted myself with various **Artificial Intelligence** techniques like *A\* search*, world-view of robot *Simultaneous Location and Mapping* (SLAM), *3D point cloud* mapping from *3D LIDAR*, *stereoscopic vision,* as member of **inter-disciplinary research & development team** in the field of **Robotics & Artificial Intelligence.**
* Worked on *SONAR and GPS sensor modules* for **path-planning and obstacle avoidance** in Version 1 of bot, *Eklavya*, our team's entry to IGVC '12, Michigan, USA.
* Worked on **​simulation** using ​*Gazebo Robotics simulator* and *Robot Operating System* (ROS) in Version 2 of bot for participating in ​IGVC ‘13 and ​also *Lunar Autonomous Rover* ​prototype chassis for ​*Team Indus*​, Google Lunar Xprize finalist.

### Intaglio 2012, IIM Calcutta *-* Contributor

## DECEMBER 2012 - DECEMBER 2012

* Worked in a **2 member team** to build an online Business Simulation Game portal using *HTML, CSS and PHP*.

# Education

### Machine Learning Nanodegree *-* udacity.com

## FEBRUARY 2016 - expected AUGUST 2016

### Bachelor of Technology *-* Computer Science & Engineering, IIT Kharagpur

## Expected DECEMBER 2016

CGPA - 6.7 till last semester

### AISSCE 2010, CBSE 10+2 *-* DAV Model School, Durgapur

All India Senior School Certificate Examination, **Science with Computer Science** - 89%.

### AISSE 2008, CBSE 10 *-* DAV Public School, Midnapore

All India Senior School Examination, Board - 88.4%.

# Projects

### Academic Projects *-* IIT Kharagpur

* Built prototype *Online Course System* website using **Django** and **MariaDB**.
* Used **Hadoop and MapReduce** to **extract statistics** about user behaviour from online discussion forum data.
* Used **C++ 11** for **Computer Graphics** and **C** for **Operating System** Projects.

### Robocop, Robotix ‘11 *-* Kshitij’11. Techno-Management fest of IIT Kharagpur

* Won **Best Freshers’ Award** with 3 member team in Robotics Event implementing **Image Processing.**
* Used **OpenCV** libraries in *VC++ Visual Studio* Project, run on a laptop driving Differential Drive of the bot.

# Extra-curricular Activities

Awarded one of the **best volunteers** for the year at NSS in capacity of **Deputy Group Leader**.

Participated in IIT KGP’s various Technical and Social & Cultural **Inter Hall Activities**.

Hobbies include **Sketching**, road trips, trekking and **Crypto-currencies**.