

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](#) 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**.