

Subhash Kumar

CONTACT INFORMATION	E-2206, Mantri Celestia Near Wipro Circle, Hyderabad Telangana, India	+91 981 647 9040 agarwal1994@live.in
EDUCATION	Indian Institute of Technology Mandi, India <i>B.Tech in Computer Science and Engineering with Minor in Management</i> August 2012 – June 2016 <ul style="list-style-type: none">Cumulative Grade Point Average: 6.98 Gaya College, Gaya (Bihar), India <i>Senior Secondary(B.S.E.B.)</i> 2011 <ul style="list-style-type: none">Cumulative Average: 66.4% Janta High School Dumariya, Gaya (Bihar), India <i>Secondary(B.S.E.B.)</i> 2010 <ul style="list-style-type: none">Cumulative Average: 71%	
EXPERIENCES	Operating System Management and application development for t-hub Smartron (July, 2016 – present) t-hub is upcoming product by Smartron for iot product management. It will act as a central process unit for all iot product by Smartron. My role is to design and develop OS functionality and core Application for this. This include <ul style="list-style-type: none">Process Management for t-hub.Design and Develop Core application such as Dashboard, Setting.Design security system to access t-hub and control application behavior.	
UNDERGRADUATE THESIS	Network Management in Software Defined Network <i>Supervisor: Prof. Timothy A. Gonsalves, Director, IIT Mandi</i> (August, 2015 – June 2016) QoS Service and traffic Engineering in Home/Enterprise Network using Open-flow and SDN Concept and reliability in that System. Used Open-flow, Mininet, Pox (Python based Controller), Traffic Classification technique and QoS Policy. <ul style="list-style-type: none">The major problem in the project to be tackled is to provide QoS and service priority on per user choice.Different preference option for different service for user.Easily deployable and controller running on cloud machine.Used SQL and Json for data parsing.	
INTERNSHIPS AND PROJECTS	Home Monitoring System <i>Smartron</i> (June, 2015 – Aug, 2015) Developed a cheap and Reliable System to Monitor Home using different parameter like Temperature, Humidity, Live video etc. It generate warning based on processed data. Using rpi to behave as a central machine for server and controller and Python, to feed data generated by Sensor and Bootstrap, PHP, HTML to analyze data and Present them using a website and show Notification Warning based on analyzed data.	
COURSE PROJECTS	Globalone <i>Information And Database Systems</i> Built an interactive organized photo base , which had features like upload images, buy/sell images , tag based auto complete search , like or dislike, paginated feeds . Developed this app using Django web-framework, MySQL, HTML5, Bootstrap CSS, AJAX. Won the first prize out of 15 teams , for this project. Network traffic analyser <i>System Practicum</i> CLI Tool to Monitor Network traffic and generate Graph. Used bash, SNMP, nmap, Python, gplot .	

Anti-collision System for blind turns*Design Practicum*

Develop a Product to detect vehicles on both side of blind curve and prevent accident, Specially in Fog area.

This will give warning through light, sound or both based on weather condition.

Used **C, Arduino** for this project.

Hotel/Canteen Ordering System*Database Practicum*

Hotel Management System which has feature like Order food, book Table/Room, give rating to service, promotional offer and a Admin interface.

Used **PHP, MySQL, HTML, CSS**.

**TECHNICAL
SKILLS**

Languages: C, C++, Python, PHP

Web Development: HTML, CSS, JavaScript, Bootstrap

Database Management: MySQL

Operating System: Windows, Linux(Ubuntu), Mac, Snappy (Ubuntu-core).

Misc.: L^AT_EX , Django web-framework, R, SNMP tools, Adobe Photoshop, node.js

**POSITION OF
RESPONSIBILITY**

Coordinator, Space Technology and Astronomy Cell, IIT Mandi (May, 2014 – June, 2015)

Served as the coordinator of Astronomy Club, IIT Mandi. The club is responsible for organizing many events such as **Star gazing**, workshops, etc. We have also started research section in field of Astronomy.

Web Coordinator , Exodia (Cult-Tech Fest), IIT MANDI (2015)

The Main responsibility as a web coordinator of Exodia'15 as to built a website for Fest and manage Server, Data and Application to promote Fest all over the India.

Coordinator, National Service Scheme, IIT MANDI (Sep 2012 May – 2014)

Served as the Coordinator of NSS, IIT Mandi which was preceded by the role of co-coordinator from Sept, 2012 to Sept, 2014. Organized many events as blood donation camp, teaching students at orphanages, tree plantation program, etc. Also made Website for NSS and started Design and Publicity Section to increase creativity.

**RELEVANT
COURSEWORK**

Computer Science: Data Structures, Computation For Engineers, Computer Organization, Paradigms of Programming, Analysis And Design of Algorithms, Software Engineering, Network Management System, Information And Database Systems, Communicating Distributed Processes, Data Mining For Decision Making, Big Data and Map Reduce.

Management Courses: Economics, Organization Management, Managerial Decision Making, Financial Accounting, Financial Management.

**EXTRA
CURRICULARS**

- Represented IIT Mandi in the **Inter-IIT Sport Meet** as **Hockey Player** in 2012, 2013.
- Social Service: Taught children of rural areas in an initiative by **Prayas**, IIT Mandi
- Represented IIT Mandi in the **Inter-IIT Tech-meet** IIT Bombay , 2014 and IIT Khadagpur, 2015 in **Messier Marathon**.

REFERENCES

Prof. Timothy A. Gonsalves

Director, IIT Mandi

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