



Sudheesh Singanamalla
Computer Science & Engineering
National Institute of Technology – Warangal

Undergraduate
4th Year
Male
D.O.B: 21 Oct 1995

University	Course	Year	CGPA / %
Indian School of Business (Dual degree program with the signed MOU between NITW and Govt. of Telangana)	Technology, Entrepreneurship and Product Design	2014 – 2016	-
National Institute of Technology, Warangal	Computer Science & Engineering	2012 – 2016	8.06
Delhi Public School, Kuwait	CBSE Grade 12 AISSCE	2011 - 2012	94.0%
Delhi Public School, Kuwait	CBSE Grade 10	2009 - 2010	9.8 CGPA

Webpage: <https://www.sudheesh.info/>

Open source contributions: <https://github.com/sudheesh001>

Scholastic Achievements

- Rank 1 in Project Euler in India.
- Runner up of the ISB Engineering design award.
- **Highest Distinction** in Artificial Intelligence from Stanford Engineering's AI Class, now with Udacity.
- **Highest Distinction** in Algorithms, Crunching the social network.
- Presented a winning business intelligence paper at Indian Institute of Management, Ahmedabad on building hospital management systems and maximizing profits by shifting to a scalable hybrid cloud.
- Semifinalist for National Programming League, 2012 Technozion.
- **High Distinction** in Statistics and Probability, Udacity, Stanford University.
- Selected for **India National Finals** for Microsoft Imagine Cup 2013 Russia in the Azure cloud category.
- Top Coder award for Microsoft Code.Fun.Do Academic Accelerator program.
- Worldwide finalist for **Intel Perceptual Computing 2013**

Internships and Research

Google Summer of Code 2015

2015

Worked on the webclient for loklak, a distributed P2P Server tool running on elastic search which stores and collects messages from various sources including twitter with a peer-to-peer sharing interface to avoid usage of the OAuth authentication and instead use a P2P network to create a REST API mimicking twitter and support for Internet Of Things. Loklak is an anonymous Twitter search system which has its endpoints as the same responses which Twitter gives out in its API. It is also capable to scale to other data sources.

Microsoft India

Summer 2015

Worked on a proof of concept for a patent that has been filed to integrate a tutorial based service where the tutor can create a new file package and then hand it over to the learner who can learn from the visual studio interface integrated with the solution files generated.

Red Hat India R&D Bangalore

Winter 2014

Internal tools for improving productivity and community collaborations, code metrics and other tools for managers and project leaders to monitor the development progress.

Edu Kinect Hyderabad

May-Dec 2014

Lead developer for the Beringa application, which is a smart recruitment software system aimed at helping companies and industries find the right talent to recruit for their company.

Microsoft India

Summer 2014

Built a tool for tracking vaccination given to children, targeting the children and infants in rural areas using localized SMS and timing system for parents to keep track of their children and doctors in government areas to keep track of the status of the children in the area.

Clouds green

Winter 2013

Lead UX Developer for the complete web application for clouds green, which manages e-bills and receipts on the web.

Kuwait Oil Company

Summer 2013

Interned as a part of the KOC Enterprise IT infrastructure at the security, data center, project management and the audit teams. Cloud migration of the share point servers to hybrid cloud.

Microsoft India

Summer 2013

An artificial intelligence and a machine learning application which predicts the upcoming ticker price for the stocks present in the DOW and NASDAQ indexes.

Academic Projects & Papers Presented

Super Stereo: Neuro Pupil - MIT Media Labs - RedX

2015

All in one binocular screening and therapeutic solution combining virtual reality (VR) and gaze tracking. This device can be used to screen for a wide range of eye and neurological disorders. The virtual reality headset which tracks the pupils in real time when can be used to diagnose a variety of clinical problems.

e-Library system for automatically indexing the research papers and converting the existing FTP based system to hashed ADC for faster transmission through the network. 2014

This project aimed at converting the FTP based e-Library system provided by MHRD, Govt. of India to NIT-Warangal from an FTP system where the access to students is slower to an ADC system with hashing so that the files can be directly distributed within the network.

Using image processing for easier learning for dyslexic children. 2013

The paper aims at providing a new learning software for dyslexic students to learn mathematics in a much easier way. This paper uses the learning from analyzing students who play a game of numbers which are colour coded for easier and faster supervised learning.

Reducing IT Overheads in Hospital Management Systems 2013

A cloud based hospital management system which when adopted leads to higher profits and easily allowing an innovative patient file management system for multiple branches of the same hospital for the patients to get easier access to.

Entrepreneurship – Easier for the illiterate ? 2013

A case study paper about the Mumbai Dharavi slum, its economy and a critic approach to the main definition of Entrepreneurship, the requirement for standardization for the definition, a view into frugal and grass root level innovation while finding out impacts of a hidden but a fast moving economic sector.

Automatic waste segregation system using NIR Spectroscopy 2012

The main aim of the paper is to figure out a computer aided / instrumental procedure for automatically segregating the domestic waste into different sections, specifically plastics. This computer based NIR spectroscopy and control systems successfully aided in the completion of the project.

Other Projects & Open Source Contributions

Loklak, Distributed Anonymous twitter search engine 2015

Server tool running on elastic search which stores and collects messages from various sources including twitter. It works on a peer-to-peer sharing interface to avoid usage of the OAuth authentication and instead use a P2P network to create a REST API mimicking twitter and support for Internet Of Things.

Lakshya Foundation's Crowd funding platform (Shakespeare) 2014

This project aims at increasing the innovation culture at university and bringing the top ideas of the students to the alumni and to funding organizations in a manner similar to kick starter so that the research work of the students doesn't get stalled due to lack of funding or resources. The aim of the application is to provide a platform for this process to take place.

Google Code for India – Delivery Optimization for Akshaya Patra 2014

Code for India, is an organization that works alongside NGOs to build technology solutions to problems that the NGO faces that could be solved by technology. As a part of this, Delivery optimization is an application that is specific to Akshaya Patra, an organization that provides the mid day meal for thousands of school children, the problem was to improve the delivery route so that the meals can reach children on time while saving time and fuel.

Mozilla – Open source contributions to Firefox, Firefox OS, Web applications 2013

Contributed to the building of components in Firefox OS, Firefox developer tools and general web toolkits. Holding a responsible position of being an evangelist for the Mozilla India community, I've successfully mentored more than 10 new contributors. Reported more than a 100 issues and enhancements and successfully pushed more than 60 patches to the main codebase.

Artificial Intelligence and Machine learning for prediction of market prices 2013

The project aims at building an application centered around data mining of large datasets and machine learning to predict the next ticker price for all the stocks present in the stock indexes.

Sentiment Analysis of the news and twitter feed data for stock predictions 2013

Winning application at Yahoo Open Hack 2013 for building an application that predicted the stock market trends based on the live real time news updates and twitter feed from users in the finance sector, their tweets. This application scraped more than 40 financial websites and more than 100 users public data to aid in the prediction of the stock prices.

NIT-Warangal Dispensary Management System 2013

This web application caters to the working and management of the pharmacy inventory of the dispensary present inside campus, the provision for generation of sick letters and managing the medical record of all the students present on campus.

A crowd funding based donation sourcing system for food and supplies 2013

This cross platform application won the runners up award at AngelHack. The aim of the application is to create a framework for NGOs to collaborate and share resources from one region to another and at the same time allow for users to pitch in for donation raw resources like rice, pulses, wheat etc.,

Automatic user defined textile manufacturing systems based on body image processing 2013

This project has been selected to Intel Perceptual Computing challenge 2013 Phase 2 for its implementation with the Intel Creative HCI Sensor and the intel SDK. The project image processes the size of the human body of the human standing in front of it and gives a virtual dressing room while accurately identifying the required dimensions for clothing.

Early cancer detection using mass spectroscopy and data mining large matrices 2013

This project compares the matrices of the spectroscopy data derived from blood samples and compares it quickly using column elimination procedure by comparing it with the information of a healthy person's blood sample standardized by the WHO. This was a part of the implementation done as an intern for the PhD thesis of Prof. Satish, Dept. of BioTechnology, NIT-Warangal

Other open source organizations and projects contributed to

- **Astropy** – A python library for astronomical data.
- **Google** - Contribution to icons on material design.
- **Mozilla** – Contributions to MDN, Firefox, Firefox OS.
- **D3.js** – Contributed examples of visualization to the data visualization library.
- **Fedora** – Patches to web applications and one security related bug.

Positions of responsibility

Secretary for Association of Computing Machinery Student Chapter 2014

- *Responsible for improving the amount of research and publications that happens in the computer science and engineering department of NIT-Warangal.*
- *Responsible for training the students and organizing workshops in different areas of computer science and competitive programming.*

Mozilla reps and Evangelism 2013

- *Responsible for collaborating and mentoring the contributors and finding out their expertise and helping them get started to open source contributions.*
- *Responsible for interacting with community from across the world and taking combined decisions, taking part in the decision making process of the organization.*

Web and Software Development Cell (WSDC) 2013

- *Responsible for the development of websites, internal web applications and software applications that are used on a daily basis within campus.*
- *Mentoring the upcoming batch of students selected to the cell about the applications and reviewing code written so that its documented properly.*

Extra curricular activities

- *Vice captain for the DPS-Kuwait cricket team for the gulf zonal cricket cup against other schools from the gulf countries.*
- *Captain of the Under-18 DPS-Kuwait chess team for the international under 18 chess championship.*
- *Awarded special mention for outstanding contributions in editorials, classical performances and academics.*
- *Numismatics, Swimming and learning new spoken and written languages.*