Srinath Mandava

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Education

2012–2016	**Computer Science and Engineering (B.Tech)**, *IIT Kharagpur*, Kharagpur, West Bengal.
CGPA:	8.45/10(by the end of 6th semester)
2010–2012	**Intermediate**, *Sri Chaitanya Junior College*, Vijayawada, Andhra Pradesh.
Aggregate:	96.5%
2010	**Secondary School**, *V.P.Siddhartha Public School*, Vijayawada, Andhra Pradesh.
CGPA:	10/10

Experience

May,2015 - July,2015 — **Summer Intern**, *Microsoft India (R&D) Pvt. Ltd*, Bangalore, Karnataka.
- Was a member of `Bing Ads Team`. Worked on the Click prediction of Display Ads.
- Implemented novel Ad Image Features for the Click Prediction Model of Display Ads.
- Used `Cosmos`,Microsoft's internal BigData analysis platform and `ScopeML` for Machine Learning Models .

May,2014 - July,2014 — **Summer Intern**, *Adwitech Info Systems Pvt Ltd*, Hyderabad, Telangana.
- Worked on developing a Social Networking web app using `MEAN Stack`, a full stack javascript based framework.
- Implemented a `complete Real Time Newsfeed` package using `node.js` and `socket.io` for the backend and `angular.js` for the frontend.
- Users can upload photos, make a status update, share posts, like, comment on the posts.
- Users can also create groups, which have their own newsfeed similar to facebook.

Development Projects

2015 — **ChatterBox**, *A productive and well organizable chat application*.
- ChatterBox is a websocket based chat application developed using node.js and socket.io for back-end and angular.js for the front-end. Developed by a team of size 4.
- ChatterBox which goes by motto Chat.Organize.Be Productive , mainly targets student community and enterprises to organize their chats for more productive chat experience.
- Developed a webapp for **IBM's Bluemix hackathon**. Secured **2nd place** in the hackathon.
- Developed a Windows Store App for **Microsoft's code.fun.do** at Kharagpur in 24hrs. We were the **Winners** of the competition.
- Developed a completely polished app with extra features for the **code.fun.do Finalist Forum**, which is a competition among all the regional code.fun.do winners. We are 1 of the 5 **Winning Teams** in India.

Jan'15 — **Jaankari**, Opensoft, 3rd Inter IIT Tech Meet.
- Was primarily responsible for the server side part and crawling data required. Used `node.js` , `SQL` for backend and `Python` for crawling.
- An android app to optimize data usage in intermittent network areas and to provide offline search capabilities using wifi peer to peer network.
- Our Team(of size 8) representing IIT Kharagpur secured **1st place** among all the IITs in this competition.

Mar'15 — **Plotit**, *Graph Plotter and Calculator*, Inter Hall Opensoft Competition, IIT Kharagpur.
- Was primarily responsible for implementing equation solver and module for generating 3d and 2d plots. Used `Mayavi` for 3D plots and `Sympy`'s `Matplotlib` for 2D plots.
- Software is used to generate plots for implicit,explicit equations and inequalities for both 2d and 3d.
- Our Team(of size 10) secured **4th** in this competition.

Mar'14	**Automated Mosaicing of Torn Paper Documents**, *Inter Hall Opensoft Competition*, IIT Kharagpur.

- Was primarily responsible for the Design and Frontend functionality of the software.
- Software is used for automatic Mosaicing of torn images using `openCV` on `Python` for image processing and `PyQt` for the GUI.
- Our Team(of size 10) secured **BRONZE** in this competition.

2015	**Chrome Extensions**.

- Developed a chrome extension which helps in taking quick notes in websites like geeksforgeeks,codeforces.**Link: GeeksNote**
- Developed a chrome extension which adds ratings filter to most of the flipkart search categories and looks native to the website.**Link: Flipkart Ratings Filter**
- Developed a chrome extension which enables to flag spam/unwanted comments so that they can be removed instantly and also prevents them from appearing in future. **Link: Facebook Comment Blocker**

Spring'14	**Web Development and Design Projects**.

- Developed a product launch page for Web Design Contest, Bitwise, Department of Computer Science and Engineering.**Link: bitwise/hackgp**
- Developed hall website of MS Hall with the design from a template. It also contains an Alumni portal(a social network for the alumns of MS hall). The Alumni portal is based on an open source social network code which was modified accordingly. **Link: www.msites.co.in**

Academic Projects

Mar'15-ongoing	**Automated Tool for Differential Cryptanalysis**, *B.Tech Project*.

- This projects aims in Identifying the Differentials Paths automarically.
- Implementing Impossible Differential attack on AES is a part of the project.

Aug'15-ongoing	**Detecting Citation Cartels of Scholarly Network**, *Social Computing*.

- This project aims to detect patterns/characteristers where a group or organisation tends to boost each other's citation count.
- These organisations could be some research groups, journals or conferenes.

Aug'15-ongoing	**Normalizing Chat & Identifying Topic of Conversation**, *Speech & Natural Language Processing*.

- This project aims to identify the topic of conversation in Social Media, especially Chat.
- Normalizing chat implies converting SMS language to English language, such that it helps in Topic Identification. This is done using character n-grams.
- Designed and Implemented novel algorithms for predicting the topic of conversation.

Spring'15	**Student Academic Database**, *DBMS*.

- This was done by a team of size 4. Used **SQL** for all the database queries.
- Students can register for courses, view grades. Professors can assign grades, takeup courses.
- Time Table allocations were done based on graph algorithms.

2014	**CASE(Computer Aided Software Engineering) Tool**, *Software Engineering Project*.

- Developed a CASE Tool, a tool used to create(draw) data flow diagrams, modules, hierarchies etc using `Java` as a part of Software Engineering Course.
- Using this Tool user can draw Data Flow Diagrams and State Charts by drag and drop.
- The software automatically creates and updates Data Dictionary and also checks for Balancing Errors.
- Also allows users to Save diagrams, Edit diagrams, Print diagrams.

Skills

Proficient With

Languages	`C, C++, Python, JavaScript, Scope, SQL, HTML, CSS`
Technologies	`AzureML, angular.js, Visual Studio`

Have Experience With

Languages	`Java, C#`
Technologies	`MongoDB, node.js, Flex, GNU Bison, Verilog`

Achievements

2015	**2nd Runners Up** of **Flipkart Hackathon** , organised at IIT Kharagpur.
2015	One of the top 5 **Winning Teams** of **Microsoft code.fun.do Finalist Forum** in India.
2015	**Winners** of **Microsoft code.fun.do** , organised at IIT Kharagpur.
2015	Member of **GOLD** winning Opensoft team, representing IIT Kharagpur in **3rd Inter IIT Tech**
2015	**Runners** of **Bluemix Hackathon** by **IBM** , organised at IIT Kharagpur.
2014	Our team(of size 10) secured **BRONZE** in **Opensoft** Competition held by Gymkhana,IIT Kharagpur
2012	Secured an **All India Rank** of **283** in **IIT-JEE 2012** among 500,000 students
2012	Secured an **All India Rank** of **7** in **AIEEE, B-Arch** among 100,000 students
2012	Secured an **All India Rank** of **47** in **AIEEE, B-Tech** among 1,100,000 students
2012	Scored **402/450** in **BITSAT**, admission test for **Birla Institute of Technology and Science**
2012	Secured a **State Rank** of **85** in **EAMCET 2012** among 250,000 students
2012	Stood among the **top 1%** students all over India in each **Indian National Chemistry Olympiad, Indian National Physics Olympiad and Indian National Astronomy Olympiad**
2011	Selected for **KVPY Fellowship Award** - **2011**
2009	Received **Bronze Medal** in **AIMEd Talent Test**, AP for securing **3rd Position** in Andhra Pradesh

Positions of Responsibility

Aug,2014 - Mar,2015	**Vice Captain**, *MS Hall Opensoft Team*, IIT Kharagpur. • Responsible for leading the Opensoft team of Meghnad Saha Hall in the Tech General Championship.
Oct,2012 - Feb,2013	**GES Intern**, *Entrepreneurship Cell*, IIT Kharagpur. • Responsible for the publicity of Global Entrepreneurship Summit-13 in and around Vijayawada. • Involved in various pre-fest activities.
Sep,2013 - Apr,2013	**Web Secretary**, *Meghnad Saha Hall of Residence*, IIT Kharagpur. • Responsible for the development and management of MS Hall website and MS Hall Mess Portal.

Relevant Coursework

First Year	Programming and Data Structures
Third Sem	Algorithms-1, Discrete Structures, Introduction to Electronics, Signals and Systems
Fourth Sem	Switching Circuits, Probability and Statistics, Formal Languages and Automata Theory
Fifth Sem	Compilers, Computer Organization and Architecture, Algorithms-2
Sixth Sem	Operating Systems, Computer Networks, Database Management Systems
Seventh Sem	Natural Language Prcessing, Social Computing, Theory of Computation, Machine Learning, Artificial Intelligence