Sourya Kakarla

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Education

2012–2017 Computer Science and Engineering (Dual Degree), IIT Kharagpur, W.B.

CGPA: 8.47/10(at the end of 6th semester)

2010–2012 Intermediate, Sri Chaitanya Junior College, Hyderabad, Telangana.

Aggregate: 94.7%

2010 Secondary School, V.P.S Public School, Vijayawada, Andhra Pradesh.

CGPA: 10/10

Experience

2014 Intern, Advitech Infotech Pvt Ltd, Hyderabad, Telangana.

- Worked on MEAN Stack to develop a social webapp for professionals.
- Primarily worked on the server side using node.js and mongoDB.
- Designed the database schemas on mongoose for mongoDB for the social network.
- Used Express.js for url routing and socket.io for real time updates.
- Implemented the connections part, user groups and admin policy for groups, persistent and real time notifications. Worked on both the front-end and back-end.
- Implemented a chat server, newsfeed, and email service was responsible for the back-end.

Projects

2015 ChatterBox.

- A chat organizing application which makes navigating/accessing chat history easier by indexing and providing various other utilities. Developed by a team of 4.
- Built a web application using node.js, mongoDB and Angular for GES Hackathon organized by IBM. Secured 2nd place in the hackathon.
- Built a Windows Store app for Microsoft's Code.Fun.Do hackathon. Secured 1st place in the Kharagpur competition.
- Was primarily responsible for the backend(server and database).

2015 PlotIt, Opensoft, IIT Kharagpur.

- Team(of 10) secured 4th place in the competition.
- Developed in python. Used sympy, matplotlib and mayavi for plotting.
- Was primarily responsible for integrating sympy and mayavi's plotting interface with the GUI built using PyQt a python wrapper for Qt.
- Implemented plotting explicit, implicit and parameteric equations in 2D and 3D. Inequalities are supported in 2D
- The plotted graphs can be exported to various file formats such as png, jpg, pdf, eps etc.

2014 Automated Restoration of Torn Documents, Opensoft, IIT Kharagpur.

- Team(of 7) secured bronze medal in the competition.
- Used openCV on Python for image processing.
- Was primarily responsible for the GUI implemented using PyQt a python wrapper for Qt.
- Implemented drag and drop functionality to upload and remove images, implemented animation effects for loading using PyQt.
- Back-end Implemented a function to calculate Overlapping Area of two polygons using Polygon module.
- Github repo: github.com/ma08/OpenSoft14.

2014 Chrome Link Copy, A browser extension.

- Google Search results and links(sent/received) in Facebook Chat are redirection
 urls. Using a browser's inbuilt Copy Link Address option, the redirection url is
 copied instead of the actual url the user intended to copy.
- This extension is created to solve this problem by adding another option in the context menu Copy real link. Using this option, the intended link is copied instead of the redirection url.
- Implemented for Google Chrome and Mozilla Firefox.
- Github repo: github.com/ma08/chrome-link-copy, github.com/ma08/firefox-link-copy.

2013 **CASE(Computer Aided Software Engineering) Tool**, Software Engineering Project.

- Developed using Java for Software Engineering Course by a team of 2. A tool used to create(draw) data flow diagrams, modules, hierarchies etc.
- Primarily used the Swing library to create the GUI to create the diagrams.
- Automatic generation of Data Dictionary and checking of Balancing Error.
- Implemented save and load operations for the diagrams using Serialization.
- Github repo: github.com/ma08/CASE.

Technical Experience

Proficient With

languages C, C++, JavaScript, Python, Java

technologies node.js, mongoDB, Git, socket.io, Linux

Have Experience With

languages Bash, C#

technologies GAS(GNU Assembler), Angular, MFX, jekyll, gimp, Windows

Activities

2013–2015 **Football Team**, *M.S.Hall*, IIT Kharagpur.

Member of Gold Winning Team, M.S.Hall in the Sports General Championship '15.

2012–2013 Member, KGPian Game Theory Society, IIT Kharagpur.

Studied various aspects of Game Theory and its applications.

- Published an article on Burning Bridges in the Football Transfer Market in The Strategist, the magazine of the society.
- Organized an event, War of Wits in IIT Kharagpur. Came up with the idea of the Centipede Game which hugely contributed to the success of the event.