

## **SRAVANTHI RANI SINHA**

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### **EDUCATION**

Jan 2016 - Jan 2018

#### **Holberton School, San Francisco, CA**

Full Stack Software Engineering

*Related Coursework:* System Engineering; Data structures & Algorithms;  
Web Stack programming

Sept 2009 - Jun 2013

#### **Jawaharlal Nehru Technological University, Hyderabad, India GPA 3.9/4.0**

Bachelor of Technology in Electronics & Communication Engineering.

*Related Coursework:* C Programming; Data Structures; Discrete Mathematics.

### **EXPERIENCE**

Jun 2016 - Aug 2016

#### **NASA/SETI Institute, Mountain View, California**

*Software Engineer Intern (Data Science)*

- Worked on New Discoveries team which aimed to “Finding meteorites in the field using Deep Learning” utilizing pre-trained networks and Model Ensembling.
- Experimented with the traditional computer vision techniques like BLOB Detection and used SIFT features to find a meteorite.
- Designed and developed a web-app to import, analyze and leverage data collected by the drone in the field capturing meteorite images.

Jun 2013 - Jan 2016

#### **InRhythm Solutions Pvt Ltd., Hyderabad, India**

*Software Engineer*

- Revamped the ETL process to increase the performance using SSIS tools by 96%.
- Developed an Excel-VBA (MACRO) based interface that imports data from the external system (SQL Server 2008). It provides various options and features to analyze the data across different dimensions and a customized export.
- Worked closely with the product engineers and built several feature enhancements.

May 2014 - Oct 2014

#### **Google Summer of Code/National Resource for Network Biology, Mountain View, CA (Remote)**

*Mentor*

- Mentored an undergraduate student in developing a BiomartConnect plugin for PathVisio (a tool for pathway visualization and analysis) which is used to Visualize gene information from Ensembl Biomart.
- The project was built using Swing GUI, OSGi Framework, Java and SOAP based web services.

May 2013 - Aug 2013

#### **Google Summer of Code/National Resource for Network Biology, Mountain View, CA (Remote)**

*Software Development Engineering Intern*

- Developed a WikiPathways Client Plugin which connects to the online pathway databases, WikiPathways, and allows users to search and browse pathways from PathVisio (a tool for pathway visualization and analysis).
- Used SOAP based web services, Swing GUI, OSGi Framework, Java and XML.
- Produced technical and support documentation.

May 2012 - Oct 2012

## National Resource for Network Biology, San Francisco, CA (Remote)

*Software Development Engineering Intern*

- Developed a PathVisio Validator Plugin which is aimed at producing standard biological pathway diagrams in PathVisio. This validation tool gives a detailed analysis as to which particular elements in the pathway are not diagrammed according to the standard. Used Swing GUI, OSGi Framework, Java, Schematron,
- Developed a Stoichiometry Plugin for Pathvisio which helps in producing a Stoichiometry Matrix for a standard biological experiment. Used Swing GUI, OSGi Framework, Java, SBGN-ML and junit.
- Completed deliverables on time with documentation, unit tests and video tutorial demos.

## PROJECTS

April 2017 - Present

### System Programming & Algorithm

- Rewrote various utility programs which include *printf*, *ls*, *readelf*, *objdump*, *nm*, *getline*, *strace* and also recreated the Shell (Unix style command line interpreter) in C language following the Linux Kernel coding style.

Dec 2010

### Online Job Portal

- Developed an interactive web application for online job search. Used Java, HTML, AJAX, JavaScript, CSS, IBM DB2 and WebSphere. *This project has been selected for the finals of "The IBM Great Mind Challenge 2010". [1296 teams participated]*

## SKILLS

Technical Skills

- **Programming:** C, Python, Java, JavaScript, SQL, C#, VBScript
- **Web Technologies:** JavaScript, jQuery, React, HTML5, CSS3, SCSS/SASS
- **Web Stacks:** Apache, Nginx, MySQL, PHP, ASP.NET.
- **Operating Systems:** Linux, Unix, Windows.
- **Tools/Other:** Visual Studio, SQL Server, Eclipse, webpack, Git, Docker, TFS.

## AWARDS & HONORS

- I was presented the prestigious Planetary Defense award for my work by NASA.
- One of the (speaker) scholarship recipients for the Re-work Deep Learning Summit 2016, Singapore.
- Presented a talk at Bay Area ACT-W 2017 on 'How Deep Learning and Drones can save the world from Asteroids'
- Member of NNRB Academy Alumni.

## PUBLICATIONS

- WikiPathways: capturing the full diversity of pathway knowledge Published in Oxford Journals October 19, 2015
- NCSB tutorial: Pathway and Network Analysis Presented at Utrecht, 11 September 2013