SRAVANTHI RANI SINHA

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EDUCATION

Jan 2016 - Mar 2018	**Holberton School, San Francisco, CA** Full Stack Software Engineering *Related Coursework:* System Engineering; Algorithms & Data Structures; 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 Engineering 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 Fransisco, 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

| Apr 2018 - May 2018 | **Web Stack Programming** |

- Designed the core architecture and built a RESTful API access level management for recipes. All the features were implemented in pure Python 3.6 and libraries without using any micro framework or any ORM.
- Developed a simple web app in React for photography portfolio.

| Apr 2017 - Mar 2018 | **System Programming & Algorithms** |

- 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#.
	• **Web Technologies:** React, jQuery, HTML5, CSS3, SCSS/SASS
	• **Web Stacks:** Apache, Nginx, MySQL, MongoDB, PHP, ASP .NET.
	• **Operating Systems:** Linux, Unix, Windows.
	• **Tools/Other:** SQL Server, Eclipse, Webpack, Yarn, Git, Docker.

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 NRNB 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