**DIVYA NAGAR**

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| **EDUCATIONAL BACKGROUND** |  |  |  |
| **Examination** | **Institute** | **Year** | **CGPA / %** |
| B.Tech System Science | Indian Institute of Technology Jodhpur | 2016 | 7.6 |
| Intermediate R.B.S.E | Jyoti Bal Senior Secondary School, Kota | 2012 | 83 |
| Matriculation R.B.S.E | Jyoti Bal Senior Secondary School, Kota | 2010 | 88.33 |

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| **INTERNSHIPS** |
| **Google Summer of Code 2015** May 2015 – Aug 2015   * Worked with Tux4kids to design and develop cross platform games for kids to learn basic English * Developed 9 modules having 30 cross platform games using UNITY-5.0 and C# scripting * Gained experience of open source development and learned to handle GUI issues in cross platforms |
| **University of Applied Science Northwestern Switzerland**  May 2015 – Aug 2015   * Worked as a programmer and research assistant in the research project Cloud Socket * Developed an online Master Thesis Library using PHP and MySQL for the website of MSC BIS Program * Implemented graphical representation for OMG Business Motivation Modelling Language in Adoxx Platform * Learned different meta modelling languages and also developed enterprise architecture language Archimate |

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| **PROJECTS** |
| **Multi-Constrained Optimized Travel Planner** Aug 2015 – Ongoing   * Designing an algorithm for optimized travel map creation while satisfying budget and time constraints * Analyzing performance of Bi-Objective Optimization and Goal Programming for algorithm designing |
| **Encryption Algorithm Using Chaotic Sequence** Sep 2014 – Nov 2014   * Analyzed an algorithm for image encryption and implemented it using Chaotic Sequence and Plain Text * Worked in MATLAB for Implementation and to generate the key which allows to decrypt the cypher text |
| **Web Chat Application** Feb 2015 – Apr 2015   * Implemented a web chat application with the features of private chat, group chat and room creation * Used Node.js, Express and Socket.io for backend and HTML, CSS, Bootstrap for designing |
| **Unix Shell** Jan 2015 – Feb 2015   * Developed a basic Unix shell which can handle basic I/O redirections, piping and append background processes * Applied process forking and exec() functions to implement the basic and executable commands like cd, mkdir, python |
| **Human Identification Based on Gait** May 2014 – Jul 2014   * Studied Wavelet transform, Hough transform and Bounding Box algorithm, Implemented and tested these on a walking image sequence for the extraction of dynamic features and static features of a human walking cycle * Successfully got 70% classification rate and used K-Nearest Neighbors algorithm for classification |
| **Simulation Program for Analyzing paging algorithms** Feb 2015 – Mar 2015   * Simulated and analyzed the performance of page replacement algorithms like LRU, Clock, FiFO * Implemented it in C and used pre-demand paging techniques with pre-paging features |
| **Library Database Management System** Oct 2015 – Nov 2015   * Created a library database management system with features of issue, re-issue and return of documents * To reduce the time complexity for most recently accessed document used AVL Tree data structure |

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| **POSITION OF RESPONSIBILITY** |
| **Co-Lead - Google Developers Group Jodhpur**   * Organized 13 events in six months with overall participation more than 1000 * GDG Jodhpur was awarded Best Developers Group of Asia in GDG Asia Summit 2014-2015 |
| **Assistant Coordinator - Counselling Service, IIT Jodhpur**   * Insured the smooth functioning and shaped the working culture of one of the most premier body of IIT Jodhpur * Helped students and their guides in case of them facing any difficulty in their regular counselling challenges |