

# DIVYA NAGAR

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## Education Background

Examination / Degree	Institution	Year	CPI / %
B. Tech Systems Science	Indian Institute of Technology, Jodhpur	2016	7.6
Intermediate R.B.S.E	Shiv Jyoti Senior Secondary School, Kota	2012	83
Matriculation R.B.S.E	Shiv Jyoti Senior Secondary School, Kota	2010	88.33

## Internship Experience

### Google Summer of Code 2015

May 2015 - Aug 2015

- Worked with Tux4Kids to design and develop a cross platform games for kids to learn basic english
- Developed 9 different modules having around 30 cross platform games using UNITY-5.0 and C# scripting
- Gained the experience of open source development and learned to handle the GUI issues in cross platforms

### University of Applied Science Northwestern Switzerland

May 2015 - Jul 2015

- 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
- of different meta modelling languages and got experience in the field of Business and IT alignment

## Projects

### Web Chat Application

Feb 2015 - Apr 2015

- Implemented a web chat application with the features of private chat, group chat, room creation
- Used Node.js, Express and Socket.io for backend and HTML, CSS for designing

### Unix Shell

Jan 2015 - Feb 2015

- Implemented a basic unix shell which can handle basic i/o redirections, piping and append background processes
- Used process forking and exec() to implement the basic and executable commands like cd, clear, mkdir etc.

### Paging

Feb 2015 - Mar 2015

- Simulated and analyzed the performance of page replacement algorithms like LRU, Clock and FIFO
- Used pure demand paging techniques with pre-paging features in C

### Encryption Algorithm Using Chaotic Series

Sep 2014 - Nov 2014

- Implemented an algorithm for image encryption using chaotic sequences and plain text
- Used MATLAB for implementation and to generate the key which allows to decrypt the encrypted text

### Library Database Management System

Oct 2013 - Nov 2013

- Developed a library database management system features of issue, re-issue and return of documents
- Used AVL tree data structures and implemented in C++

### Human Identification Based on Gait

May 2014 - Jul 2014

- Implemented wavelet and hough transform on a walking image sequence for the extraction of dynamic features of human walking cycle
- Used Bounding Box Algorithm for static features and KNN algorithm for classification

## Technical skills

- **Programming Language:** Python, C, C++, Javascript, PHP
- **Platforms:** Unity, Matlab, Octave, Node.js, Pygame, Bootstrap
- **Database:** Mysql

## Positions of Responsibilities

### Google Student Ambassador IIT Jodhpur

- Was among top 177 students who have been selected from 500 different colleges across the country
- Conducted events on android, material design, Google I/O, Web development

### Co-Lead Google Developers Group Jodhpur

- Organised 13 events in six months with overall more than thousand participants
- Our community GDG Jodhpur is awarded as best Developers Group of Asia in GDG Asia Summit 2014-2015