

# Shruti Rijhwani

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## Education

2011–2015 (expected)	<b>Birla Institute of Technology and Science, Pilani</b> , Rajasthan, India <i>B.E. (Hons.) Computer Science</i> <b>CGPA:</b> 8.26/10.0
2011	<b>National Academy for Learning</b> , Bangalore, India <i>Central Board of Secondary Education (Grade 12)</i> <b>Percentage:</b> 97.6%
2009	<b>Sophia High School</b> , Bangalore, India <i>Indian Certificate of Secondary Education (Grade 10)</i> <b>Percentage:</b> 96%

## Relevant Courses

Machine Learning, Pattern Recognition, Information Retrieval, Computer Graphics, Multimedia Computing, Object Oriented Programming, Data Structures and Algorithms, Database Systems, Programming Languages, Compiler Construction.

## Work Experience

May '14–Jul '14	<b>Software Development Engineering Intern, Microsoft India Development Center</b> , Bangalore, India Worked on query annotation using search logs for analysing Bing search query intent. The model developed resulted in a 6% increase in accuracy over existing methods.
Nov '13–Feb '14	<b>Lead Developer, Lost Child Art Studios</b> , Pilani, India Lost Child Art Studios is a student startup that offers complete design and web development solutions. Built webapps for university festivals that managed event information and participation databases. Used HTML5, CSS3, jQuery, Python web scripting.
May '13–Jul '13	<b>Web Design Intern, Tune Patrol Media Labs Pvt. Ltd.</b> , Bangalore, India Tune Patrol is an online marketplace for independent Indian musicians to expand their audience. Developed the user interface for music concerts and song playlist features on the product website. The playlist feature built resulted in a significant increase in number of song plays.
May '12–Jul '12	<b>Software Engineering Intern, Tata Consultancy Services</b> , Bangalore, India Tata Consultancy Services is a multinational information technology consulting and solutions firm. Studied Linux operation and SQL extensively. Built a library management system in C++.
May '11–Jul '11	<b>Web Development Intern, InfoToros</b> , Bangalore, India InfoToros is a startup that provides web solutions to clients.

## Projects

### Cell Phone Microscope

Built a hardware attachment for a cell phone that can magnify images to microscopic extent using three lenses.  
Developed a classification application to identify the presence of malarial cells in the magnified images.

### Object Tracking using Object Segmentation

Built an extension to the basic CAMShift tracker in OpenCV which allowed modifiable threshold values and noise reduction.  
Implemented a single object tracker based on subtraction of frames and achieved a rate of 100 frames per second.

### Page Replacement in PostgreSQL

Modified the source code of PostgreSQL in order to implement and compare various page replacement algorithms.

### Graph Theory for Image Processing

Implemented Prim's and Kruskal's spanning tree algorithms for image segmentation in C++.

### Text Classifier

Implemented and compared lazy learning algorithms for document classification in R.

### Webapp for discovery of eating and drinking establishments in Bangalore city

Completed a basic prototype in 2013, received 1000+ unique hits in one week. Primarily used Python scripting and HTML5.

## Achievements

**Valedictorian**, class of 2011. National Academy for Learning, Bangalore, India.

**Classical Piano:** Grade 4 Trinity Guildhall Practical Pianist.

**Scuba Diving:** Certified Rescue Diver by the Professional Association of Diving Instructors.

## Positions of Responsibility

**Co-ordinator and Editor, English Press** during APOGEE 2013 (all India inter-collegiate technical symposium)

Managed a press team of 40 members to organise four journalistic events and publish five newsletters.

**Captain, Swimming Team, 2013-2014**

Organised 25 swimming events for the inter-university sports festival in September 2013.

**Teaching Assistant, Logic in Computer Science** at BITS Pilani from Aug-Dec 2013.

## Skills

C#, C++, Python, Web Technologies, MIPS Assembly, Prolog, R, OpenCV, OpenGL, Adobe Creative Suite.

## Extra-Curricular Activities

English Press Club, Swimming Team, Music Club, Department of Stage Lights.