

# Sheetal Shalini

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## EDUCATION

### NITK SURATHKAL

B.TECH IN CSE

July 2014 - May 2018 | CGPA: 9.17

### NARAYANA P.U. COLLEGE

PRE-UNIVERSITY EDUCATION IN  
PCMC

June 2012 - May 2014 | 98.8%  
100% in Math, Physics, Computer  
Science

### BISHOP COTTON GIRLS SCHOOL

JUNE 2002 - MAY 2012 | ICSE  
100% in Math | 97.4%

## SKILLS

### LANGUAGES

(C, C++, Java, Python)

### ANDROID APP DEVELOPMENT

(Eclipse, Android Studio)

### WEB DEVELOPMENT

(PHP, HTML, CSS, JS, MySQL,  
Bootstrap, Meteor, AJAX, AngularJS,  
Django, MongoDB,)

### OS

(Windows, Linux, xv6, Akaros, Tornado)

### TOOLS

(Git, STL, LaTeX, Bitbucket, Scilab)

## COURSES

Distributed Computing,  
Database Management Systems,  
Data Structures and Algorithms,  
Operating Systems, Computer Networks,  
Compiler Design, Internet  
Technology and Applications

## CAMPUS ACTIVITIES

### IEEE

Executive Member

### WEB ENTHUSIAST'S CLUB

Executive Member

### COMPUTER SCIENCE COMMITTEE

Executive Member

## EXPERIENCE

### INDIAN INSTITUTE OF SCIENCE | SUMMER RESEARCH INTERN | COMPUTER SCIENCE AND AUTOMATION DEPARTMENT

May 2016 - July 2016 | Bangalore, India

- Natural Language Processing - A cognitive approach to Metaphor Detection
- In an ongoing research programme called DIAMETERS, I aided in the development of a Cognitive Markup Language (CML) to solve various types of Natural Language Processing (NLP) tasks such as metaphor detection, sarcasm detection, irony detection, Anaphora Resolution and named entity recognition. DFS Labelling and Dependency Tagging of the Stanford parse tree for identifying chunks, along with its Concreteness-Abstractness measure was performed and evaluated.

### INDIAN INSTITUTE OF TECHNOLOGY | WINTER RESEARCH INTERN | COMPUTER SCIENCE DEPARTMENT

December 2015 | Mumbai, India

- Scilab Optimization Toolbox
- Developed two optimization modules and tools in C++ and Scilab for an open source numerical computation software, Scilab.

### MICROSOFT INDIA DEVELOPMENT CENTER | SUMMER INTERN

May-July 2017 | Hyderabad, India

- Azure Services Deployment Radar
- Made a dashboard to keep track of the OS compliance status of all the virtual machines that Azure is deployed on. Used internal frameworks to extract optimized data from the multitudes of data in the telemetry and present it to the deployment team, executives as well as the service owners.

## PROJECTS

### LIGHTE | MICROSOFT CODE.FUN.DO FINALIST | JAN-JULY 2016

- An android application for visually impaired people. It includes technologies like Android Studio, speech to text conversion, Google Maps integration and SMS API.

### DYNAMIC LOAD BALANCING | FEB-APRIL 2017

- Developed a distributed and dynamic load balancing system using OpenMPI. Implemented truthful payment mechanism to yield minimum overall expected response time.

### BUS RESERVATION SYSTEM | FEB-APRIL 2017

- Developed a bus reservation system using Django, MySQL and JS. It is integrated with Google Maps API, to automatically select the nearest pickup and drop points of the passenger.

### COMPILER DESIGN | FEB-APRIL 2017

- Designed the lexical, syntax, semantic and intermediate code generation phases of a C compiler using Lex and Yacc.

### LIBRARY MANAGEMENT SYSTEM, PARKING LOT AUTOMATION SOFTWARE | AUG-NOV 2016

- Developed these systems using MySQL, PHP, HTML and LAMP framework.