

N Hari Prasad

Curriculum Vitae

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Education

- Pursuing a Bachelors degree (currently 3rd year) in *Computer Science and Engineering* from BITS Pilani, Pilani Campus. Current CGPA(after 4 semesters) – 9.21/10
- SBOA School and Junior College, Chennai – Class 12: 95% Class 10: 94.4%

Achievements

- **Merit Scholarship** Received Merit Scholarship by BITS Pilani awarded to students with top 1% CGPA at the end of first year
- **KVPY Scholarship** Shortlisted for KVPY Scholarship awarded by Department of Science and Technology, Government of India.
- **Olympiads** Selected as one among 300 Nationwide in Indian National Chemistry Olympiad(INChO) and Indian National Physics Olympiad(INPhO)
- **C.O.D.E.R. 2012 - 24 hour algorithmic coding event by CSA, BITS Pilani** Won 1st prize as part of a 2 member team
- **Webwizard - Google Devfest Hackathon event** Won 3rd prize as part of a 2 member team
- **O(logn) - Coding contest by Tower Research** Finished in top 40 overall (first in my college) and selected as Campus Ambassador
- **Swimming** Won several medals at District, State and Collegiate levels. As captain, led BITS team to Overall Championship in BOSM 2012.
- **Essay Writing** Essay published in the book Ten Ways To Change The World with foreword by former Indian president Dr. APJ Abdul Kalam
- **Competitive Exams** A.I.R. 1766 in IIT-JEE(top 1%), A.I.R 2235 in AIEEE(top 1%)

Technical skills

- **Operating Systems** Ubuntu, Windows, Mac OS X
- **Programming Languages** C,C++,Python,MATLAB,Java,Processing,HTML,Javascript,MySQL

Online Presence

- **My Blog about Programming** <http://machlearner.wordpress.com>
- **Github** <https://github.com/redoc2010>

Work Experience

June 2011 – July
2011

Summer Internship, Intern, Inforill Technologies, Chennai.

- **Project Quantum(A Pedestrian Simulation)** Developed an animation prototype. Used backend output data to drive the animation prototype in a web based HTML frontend using Play Framework.
- **Project Shop2Cook** Used the iPhone iOS development framework to develop modules related to JSON and XML data processing.
- **Mentor** Dr. Mohideen Noordeen, Managing Director, Inforill Technoloies

- May 2012 – July 2012 **Practice School, Intern**, Scientific Information Research Division, Indira Gandhi Center for Atomic Research, Kalpakkam.
- **Study** Knowledge Representation using Ontologies, tools for creating, working with Ontologies.
 - **Project - Ontology Mapping** Created a JAVA Swing based GUI app to perform Ontology Mapping on Nuclear Domain Ontologies.
 - **Mentors** Mrs. N. Madurai Meenachi, Scientific Officer, IGCAR ; Dr. Sai Baba, Head, Scientific Information Resource Division, IGCAR

Projects and Events

- Aug 2011 – Dec 2011 **Computerized Lip Reading using Fuzzy Logic.**
- Used Viola Jones algorithm and Active Shape Models to extract features which are represented as Gaussian Fuzzy Numbers. Using the weighted mean method, Gaussian Fuzzy Numbers of a image are correlated with a phoneme. Used OpenCV and MATLAB.
 - **Paper** titled "Computerized Lip Reading using Fuzzy Logic" presented in APOGEE 2012
 - **Mentor** Prof. Shivi Agarwal, Department of Mathematics, BITS Pilani
- Aug 2011 – Current **Scene Recognition in images.**
- Part of Mobile Computing Group's Computer Vision Team
 - Obtained metrics from scene images and used machine learning algorithms (kNN and SVM classifiers) to get a similarity measure between the images. Used OpenCV and LibSVM.
- Sep 2012 **eX-Opti - An Expense Management System.**
- Part of a 2 member team for Desert Hack - a week long hackathon
 - A multi-platform expense management on the Google App Engine. Accessible through the website (www.ex-opti.appspot.com) or through telephony(+91-4466949325) - DTMF. Built using Python, HTML and JQuery Mobile using the Kookoo API and Google Charts API.
- Oct 2012-Nov 2012 **Image Compression Algorithms.**
- Implemented Discrete Cosine Transform and Singular Value Decomposition based Image Compression Algorithms in MATLAB as part of the course Multimedia Computing
 - **Mentor** Prof. Shailendra Singh Shekhawat
- Competitive Programming.**
- Implemented several Classical Algorithms for solving Programming tasks on Online judges like SPOJ, Topcoder and Codechef
- Online Courses.**
- Machine Learning (by Andrew NG, Stanford University) - Received statement of accomplishment

Positions Held

- Captain – Swimming Team, BITS Pilani for the year 2012
- Head of Computer Vision Team – Mobile Computing Group, BITS Pilani for the year 2012
- Part of 4 member Project Forum Team, Computer Science Association, BITS Pilani for APOGEE 2013
- Campus Ambassador for Tower Research for the academic year 2012-2013