

SIDDHARTHA GAIROLA

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EDUCATION

International Institute of Information Technology, Hyderabad Dual Degree B.Tech + MS by Research in Computer Science & Engineering	<i>2014 - 2019 (expected)</i> Overall GPA: 8.98 /10
St. Joseph's Academy, Dehradun Senior Secondary, ISC	<i>2012 - 2013</i> Percentage: 93.6%
St. Joseph's Academy, Dehradun Secondary, ICSE	<i>2010 - 2011</i> Percentage: 95.28%

WORK EXPERIENCE

IIIT Hyderabad May 2016 - May 2018
Undergraduate Research

- Honours at Center for Visual Information and Technology.
- Working under Prof. P.J. Narayanan in Computer Vision, Machine Learning and Deep Learning.

IIIT Hyderabad
Teaching Assistant

- Teaching Assistant for the following courses - Digital Logic and Processors, Artificial Intelligence, Digital Image Processing and Computer Vision during Monsoon 2016, Spring 2017, Monsoon 2017, 2018 and Spring 2018.
- The duties involved taking regular tutorials, setting up questions for assignments and conducting evaluations.

Google Summer of Code May 2017 - Aug 2017
Summer Internship

- Got accepted as a developer for Google Summer of Code Program 2017 for the organization Scilab.
- The goal of the project was to provide a wrapper of Matlab MEX-API on current API Scilab.

Google Summer of Code May 2018 - Aug 2018
Summer Internship

- Got accepted as a developer for Google Summer of Code Program 2018 for a 2nd time, organization Scilab.
- The goal of the project was to write a DEMO as a working example for the MEX Library in Scilab.

PUBLICATIONS

V Kumar, D Khattar, **S Gairola** , Y Kumar Lal, V Varma (2018), "Identifying Clickbait: A Multi-Strategy Approach Using Neural Networks", **The 41st International ACM SIGIR Conference on Research & Development in Information Retrieval**, Pages 1225-1228.

S Rawat, **S Gairola**, R Shah, PJ Narayanan (2018), "Find Me a Sky: A Data-Driven Method for Color-Consistent Sky Search and Replacement", **International Conference on Multimedia Modeling**, Pages 216-228.

ACADEMIC ACHIEVEMENTS

Awarded the Dean's List Award for 6 semester straight for being in top 10% of the class in Monsoon 2015, Monsoon 2016, Monsoon 2017, Spring 2016, Spring 2017 & Spring 2018.

Was a member of team **Pendulum** which qualified for the **ACM ICPC** regionals in 2015, for the Asia Amritapuri Onsite Regionals.

All India Rank **2262** in **JEE Advanced 2014** (Among 150,000 students who appeared for the exam).

All India Rank **3856** in **JEE Mains 2014** (Among 1.2 million students who appeared for the exam).

TECHNICAL SKILLS

Working Knowledge	GNU/Linux, Bash, C/C++(STL), Python, Matlab, Octave, OpenCV
Software & Tools	HTML, CSS, JS, LaTeX, Excel
Past Experience	Java, OpenGL, WebGL, Django, Web2py

PROJECTS

Hostel Portal: Developed a hostel management portal using python, Web2py framework. *Spring 2015*

Linux C-Shell: A linux like terminal implemented using C language using different concepts like fork, signals, exec, piping. *Monsoon 2015*

P2P File Sharing: Developed an application layer file transfer protocol with support for TCP. It included features such a file upload, file download and indexed searching. *Spring 2016*

AI Bot: Designed a computer bot to play the a modified version of Tic-Tac-Toe game.Using a Mini max algorithm and alpha-beta pruning *Spring 2016*

2D Game: A 2 dimensional shooting game developed using OpenGL. *Spring 2016*

3D Game: A 3 dimensional game developed using OpenGL (GLFW library). *Spring 2016*

High Dynamic Range Images: HDR imaging - generating images with a greater range of luminance levels than which can be achieved by taking only a single photograph with a fixed exposure. Using tone mapping, high-boost filtering and bilateral filtering for improvements. *Monsoon 2016*

Wiki-Search Engine: Implementation of an efficient and scalable search engine on Wikipedia dump. Retrieve top relevant documents based on input query. Handled field as well as phrase queries. Documents were re-ranked based on tf-idf measure. For fast retrieval used threading and multi-level indexing. *Monsoon 2017*

PROGRAMMING AND OPEN-SOURCE

Programming: Take part actively in competetive programming contests.

Codechef (handle: sidgairo18)

Codeforces (handle: sidgairo18)

Open-Source: Contribute to open source regularly. Have made contributions to open source organizations like **Scilab**, **LibreOffice** and **CCEXtractor**. (**Github profile** : sidgairo18)

RELEVANT COURSES

Core Courses

Computer Programming

Data Structures

Algorithms

Operating Systems

Database Systems

Artificial Intelligence

Statistical Methods in AI

Advanced Computer Networks

Other Courses

Linear Algebra

Discrete Mathematics

Complexity and Advanced Algorithms

Computer System & Organization

Digital Image Processing

Computer Vision

Principles of Information Security

Systems and Network Security

EXTRA-CIRRUCULAR

Play the piano and guitar.

Member of the school football team from 2007-2011.

Member of the IIT Hyderabad college football team from 2014-2018.