# Sachin Chandani

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# Education

2016 - Bachelors of Technology - Electronics and Communication.

Present International Institute Of Information Technology(IIIT), Hyderabad

2013-2014 Senior Secondary, Noble School, Falna.

GPA(Major): 9.83

2012-2013 Secondary, Emmanuel Mission School, Pali.

GPA(Major): 9.60

# Work Experience

Monsoon Web Administrator, QUERY FORUM - IIIT HYDERABAD, .

 $2018\,$  -Maintaining frontend, backend and server of the forum.

-Working with WordPress technologies.

Summer 2018 Full Stack Developer, Merak.AI.

-Digitization of menu cards for food delivery companies using machine learning algorithms.

-Dashboard development for state-of-art machine learning products.

## Achievements

ACM - ICPC Online Round.

2018 -Member of team **TooManyBugs** which secured 445th position overall and 283rd position in Amritapuri region in ACM - ICPC 2018.

Competitive **Programming Contests**.

Programming -25th position all over the globe and 13th position in India in Codechef's monthly programming contest(August Lunchtime'18).

-336th rank in Google Kickstart'18 Round-F (Number of participants: 2452).

244th position in the pre-elimination round of Codechef's Snackdown'17. Team: 'blue legend'

**Programming Profile.** 

Codechef: blue\_legend, Max Rating: 1965(Purple)

Problem Felicity Buzz - IIIT Hyderabad Codecraft.

Setting Successfully curated and tested original problems in the annual programming competition organized by IIIT-Hyderabad.

JEE 2016 Joint Entrance Exam 2016.

-99.35 Percentile in JEE Mains 2016.

-5936 All India Rank in JEE Advanced 2016.

## **Projects**

## CamScanner Automated Document Cropping.

-CamScanner like automated document detection and cropping over a plane background. Node.js, Python, OpenCV, HTML, CSS.

#### Heart Rate Heart Rate Monitoring Using PPG Signals.

Monitoring -Uses PPG, ECG and Acceleration Signals to monitor heart rate with Signal Decomposition, Spectrum Peak Tracking and Sparse Signal Reconstruction.

MATLAB, Python, Bash.

#### Linux Shell Linux C Shell.

-A linux like shell developed purely in C with all command sets and piping features implemented and tested.

System calls, C.

#### Bomberman Terminal Game.

-UNIX terminal game based on original BOMBERMAN, purely developed in python without using any external libraries and having multiple difficulty levels.

#### Shape Shape Plotting Of The Objects.

Plotting -Shape Plotting System which can plot 3 dimensional view of any object in x-y-z Cartesian system.

-The output can be used to for development purpose i.e. input to a 3D printer.

C(embedded), Bash, Micro-controllers(Arduino UNO) , Circuit Designs.

#### WordCloud Sentiment Analysis.

-Sentiment analysis of latest tweets to create a heat-map using developer keys and NLP libraries. NLP, Python, JavaScript, HTML, CSS.

#### Swarm Variation Resistant Sizing Of MOSFET Transistor Circuits.

Intelligence -Transistor sizing for digital circuits which uses Artificial Swarm Intelligence/Ant Colony Optimization.

-The leakage of 45nm MGK full adder was reduced to 50% during testing.

Artificial Intelligence, C++, Python, HSPICE.

# Obstacle Obstacle Avoiding Bot Prototype.

Avoiding Bot -A bot prototype which avoids obstacles in it's path and changes it according to the requirements.

Arduino, C(embedded), Circuit Designs.

### Relevant Coursework

Computer Data Structures and Algorithms, Computer System Architecture, Cache Management &

Science & Memory Hierarchy, IT Workshop(1 & 2), Time Complexity Analysis, Graph Theory, Linear

Mathematics Algebra, Probability and Random Processes, Discrete Maths, Group Theory, Vector Spaces.

Electronics Signals and Systems, Digital Signal Processing, Embedded Hardware Designs, Digital Logic

and Processors, Electronic Workshop(1 & 2), Linear Electronic Circuits.

Miscellaneous Atom models, Schrodinger eqn, Lagrangian/Hamilton Mechanics, Random Walks, Diffusion, Heat, Engineering Systems, Humanities.

#### Technical Skills

OS Linux, macOS, Windows

Programming C, C(embedded), C++(STL), Java(Basic), Ruby(Basic), Go(Basic), Python, Bash, Assembly. and Scripting

Web HTML5, CSS3, Node.js, Bootstrap.

Miscellaneous Git, Shell, OpenCV(Basic), LATEX, MATLAB, VLSI Designs

# Positions Of Responsibility

Overall Head, Marketing Team, Felicity IIIT-Hyderabad Coordinator, Campus Life Committee, IIIT-Hyderabad

Apex Body Member, IIIT-Hyderabad

Cultural Coordinator, VAYU House, IIIT-Hyderabad

Student Mentor, IIIT Hyderabad

Logistics Manager, VAYU House, IIIT-Hyderabad

September 2018 - Present

May 2018 - Present

March 2018 - Present

June 2018 - Present

June 2017 - March 2018

June 2017 - March 2018