

# Sachin Chandani

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## EDUCATION

### IIIT-HYDERABAD

B.TECH. IN ELECTRONICS &  
COMMUNICATIONS  
Grad. 2020 | Hyderabad, India

## ACHIEVEMENTS

### PROGRAMMING CONTESTS

- **10th place(Global)**, Amdocs Hackfest 2019 online round.
- **One top-10** and **two top-25 finishes** in Codechef's Monthly Contests (Global)
- **12th place(Global)**, Annual Programming Competition by IEM.
- **59th place(Global)**, Annual Programming Competition by IIIT, Allahabad.
- **244th place(Global)**, Codechef's Snackdown'17.

### GOOGLE KICKSTART

- **336th place** in 2018 round-F.
- **362nd place** in 2019 round-E.

### ACM-ICPC 2018

- Member of team **LiteLo** which secured **367th position** in ACM-ICPC 2019 online round.

### PROGRAMMING PROFILES

Codechef:// **blue\_legend(4-Star)**  
Codeforces:// **Heisenberg(Expert)**

## SKILLS

- C/C++(STL) • Python • Bash
- JavaScript • Node.js • Flask
- HTML5 • jQuery • CSS3 • Bootstrap
- MySQL • NoSQL • ReactJS
- MongoDB • REST APIs
- Wordpress • MATLAB • Unity 3D
- Git • Linux
- ARM Micro-controllers • Digital VLSI

## COURSEWORK

Data Structures & Algorithms, Linear Algebra, Discrete Maths, Probability and Random Processes, Operating Systems, Digital Processors, Computer System Architecture, Computer Networks Game Design & Engineering, Engineering Systems, Digital Signal Processing

## EXPERIENCE

### **GOLDMAN SACHS PVT. LTD.** | SUMMER INTERN

May 2019 – July 2019 | Bengaluru, India

- Worked on development of greedy/dynamic/linear programming based solutions to generate funding trade proposals with minimized cost.
- Parallelized the existing processes using threading and divide & conquer, and produced the results **18 times faster** than previous methods.
- Developed & deployed an interactive web application to visualize large financial data sets efficiently.
- Technologies used: NoSQL, MySQL, JavaScript, Slang, Linear Optimizations, Distributed Systems.

### **MSOFT TEXAS PVT. LTD.** | SOFTWARE DEVELOPMENT INTERN

September 2019 – Present | Remote

- Successfully created and tested original algorithmic problems in the annual programming competition organized by IIIT-Hyderabad.[link]

### **IIIT-HYDERABAD** | WEB ADMINISTRATOR, QUERY FORUM

April 2018 – May 2019 | Hyderabad, India

- Implemented features like comment sections, chat boxes and bulletin pages in an interactive web-application.
- Technologies used: Node.js, Wordpress, HTML5, CSS3, Python.

## PROJECTS

### **WEB READER(ONGOING)** | Java, Node.js, NLP, Perl

A foreign language web reader to display Sanskrit in alternate scripts, word stems, morphological and lexical identification, translation, and notes.

### **CAMSCANNER** | Node.js, Python, OpenCV, SQL

CamScanner like automated document detection and cropping over a plane background.

### **LINUX SHELL** | C, Operating Systems

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

### **TWITTER SENTIMENT ANALYSIS** | NLP, Python, JavaScript, HTML

Sentiment analysis of latest tweets to create a heat-map using developer keys and NLP libraries.

### **HEART RATE MONITORING** | MATLAB, Python, Bash

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

### **SHAPE PLOTTING** | C(embedded), Bash, Arduino UNO

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.

### **BOMBERMAN GAME** | Python, Bash

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