

# SACHIN CHANDANI

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## WORK EXPERIENCE

### Summer Analyst

#### GOLDMAN SACHS PVT. LTD.

May 2019 – July 2019

Bengaluru, India

- Developed **greedy/dynamic/linear programming** based solutions to generate funding trade recommendations with **minimized cost**.
- Parallelized the existing processes using **parallel computing** and **produced results 18 times faster** than previous methods.
- Developed an **interactive web application** to visualize large financial data sets over **bar-graphs, line-charts and pivot-tables**.
- Technologies used: MySQL, JavaScript, Slang, Linear Optimizations, Distributed Systems, Parallel Computing.

### Mentor - Data Structures & Algorithms

#### GEEKSFORGEEKS.ORG

February 2020 – Present

Remote, Part-time

- Teaching **Data Structures & Algorithms** concepts to a class of 40+ students.
- Problem curation, editorial writing and doubt-solving.

## PROGRAMMING ACHIEVEMENTS

### Online Programming Challenges:

- One time **top-10** and two times **top-25** finishes in **Codechef's** monthly programming contests(Global).
- 10<sup>th</sup>** rank in **Amdocs HackFest Online Round 2019**(Hackerearth).
- 12<sup>th</sup>** rank in **Annual Programming Competition** by IEM(Codechef).

**Google Hashcode 2020:** 79<sup>th</sup> team rank in India in the online round.

### Google KickStart:

- 336<sup>th</sup> rank 2018 in round-F among 4k participants.
- 362<sup>nd</sup> rank 2019 in round-E among 6.5k participants.

**ACM - ICPC 2019:** 367<sup>th</sup> team rank in online round, Team Name: **LiteLo**.

### Programming Profiles:

- Codechef: blue\_legend(4-Star) [URL]
- Codeforces: Heisenberg(Expert) [URL]

**Problem Setting:** Successfully curated & tested original problems in the annual programming contest organized by IIIT-Hyderabad(Buzz'17).

## TECHNICAL SKILLS

- Programming & Scripting:** C/C++(STL), Python, JavaScript, Shell, Scheme/Racket, Java(Basic), Go(Basic)
- Web & Databases:** Django, Flask, Node.js, JQuery, React, **MySQL**, SQLite3, MongoDB, **Elastic**
- Miscellaneous:** Git, AWS, MATLAB, OpenCV(Basic), Unity 3D, WebGL, Micro-controllers, Linux, **Algorithmic Financial Strategies**

## EXTRACURRICULAR

- Campus Life Coordinator, IIIT-Hyderabad:** Served as the head coordinator for event team from 2017 to 2019.
- Apex Mentor 2018-19, IIIT-Hyderabad:** Organized admissions, counseling processes and induction events for 500+ students with a team of 13 other members and 150+ mentors.
- Web Administrator:** Worked as a web administrator for Freshers' Portal in 2018-19.
- Hobbies/Interests:** Reading, Table Tennis, Jazz, Competitive Programming.

## EDUCATION

B.Tech. in Electronics & Communications Engineering

**International Institute Of Information Technology(IIIT), Hyderabad**

July 2016 – Present

## TECHNICAL PROJECTS

### FOREIGN LANGUAGE ANALYSIS - WEB READER(ONGOING)

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

[Java, Node.js, NLP, Perl, Elastic]

### CAMSCANNER

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

[Node.js, Python, OpenCV, SQL]

### LINUX SHELL/TERMINAL

A Bash like shell in C using Linux system calls, includes user-defined commands, piping, redirection and signal-handling.

[C, Operating Systems]

### SENTIMENT ANALYSIS

Sentiment analysis of latest tweets to detect hate speech in tweets and classify racist or sexist tweets using NLP and machine learning techniques.

[NLP, Python, JavaScript]

### SHAPE PLOTTING SYSTEM

Designed & developed a Light Detection And Ranging(LiDAR) based system which can plot 3-dimensional shape of real objects.

[MATLAB, Python, Bash, C++]

## RELEVANT COURSEWORK

- Computer Science:** Data Structures, Algorithms, Operating Systems, Computer Networks, Computer System Architecture, Speech Technology.
- Mathematics:** Discrete Maths, Probability & Random Processes, Graph Theory, Differential Equations, Linear Algebra.
- Miscellaneous:** Game Design & Engineering, Engineering Systems, Digital Signal Processing, Digital Logic and Processors.