

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 doubts-resolving.

PROGRAMMING ACHIEVEMENTS

- Online Programming Challenges:**
 - One top-10 and two top-25 finishes in Codechef's monthly programming contests(Global).
 - 10th rank in Amdocs HackFest Online Round 2019(Hackerearth).
 - 12th rank in Annual Programming Competition by IEM(Codechef).
- Google Hashcode 2020:** 79th team rank in India in the online round.
- ACM - ICPC 2019:** 367th team rank in online round, Team Name: **LiteLo**.
- Google KickStart:**
 - 336th rank 2018 in round-F among 4k participants.
 - 362nd rank 2019 in round-E among 6.5k participants.
- Algorithmic Problem Setter:** Successfully curated & tested original problems in the annual programming contest organized by IIIT-Hyderabad(Buzz'17).
- Programming Profiles:**
 - Codechef: **blue_legend(4-Star)** [URL]
 - Codeforces: **Heisenberg(Expert)** [URL]

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

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

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

- Developed a Light Detection And Ranging(LiDAR) based system which can plot 3-dimensional shape of real objects.
[MATLAB, Python, Bash, C++]

HEART RATE MONITORING - PPG

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

RELEVANT COURSES

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