

SACHIN CHANDANI

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WORK EXPERIENCE

Summer Intern

Goldman Sachs Pvt. Ltd.

May 2019 – July 2019

Bengaluru, India

- Worked on development of greedy/dynamic/linear programming based solutions to generate funding trade recommendations 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.

Mentor, Data Structures & Algorithms

GeeksforGeeks.org

February 2020 – Present

Remote, Part-time

- Teaching Data Structures & Algorithms concepts to a class of 40+ students.

Web Administrator, Freshers' Forum

IIIT-Hyderabad

April 2018 – June 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.

ACHIEVEMENTS

- **Online Programming Challenges:**
 - One top-10 and two top-25 finishes in Codechef's monthly programming contests(Global).
 - 10th rank in Amodocs HackFest Online Round 2019(Hackerearth).
 - 12th rank in Annual Programming Competition by IEM(Codechef).
 - 59th rank in Annual Programming Competition by IIIT, Allahabad and qualified for on-site(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.
- **Programming Profiles:**
 - Codechef: blue_legend(4-Star) [URL]
 - Codeforces: Heisenberg(Expert) [URL]
- **JEE Mains:** Rank in top 0.1% among 1.3 million candidates in 2016.
- **JEE Advanced:** Rank in top 3% among 0.2 million candidates in 2016.

TECHNICAL SKILLS

- **Programming:** C/C(embedded)/C++, Python, JavaScript, Shell, Scheme, Java(Basic), Go(Basic)
- **Web:** Django, Flask, Node.js, JQuery, React
- **Database:** MySQL, SQLite3, MongoDB, Elasticsearch(Basic)
- **OS:** Linux, Windows, MacOS
- **Miscellaneous:** Git, AWS, Matlab, OpenCV(Basic), Unity 3D, WebGL, ARM Micro-controllers, VLSI Designs

EDUCATION

B.Tech. in Electronics & Communications Engineering

International Institute Of Information Technology(IIIT), Hyderabad

July 2016 – Present

PROJECTS

Web Reader for Foreign Language Analysis(Ongoing)

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

CamScanner

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

Linux Shell/Bash in C

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

Twitter Sentiment Analysis - Word-Cloud

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

Heart Rate Monitoring using PPG Signals

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

RELEVANT COURSES

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

MANAGEMENT POSITIONS

- Market Head 2018, Annual Techno-Cultural Fest, IIIT-Hyderabad
- Campus Life Coordinator 2018, IIIT-Hyderabad
- Apex Member 2018-19, IIIT-Hyderabad