SACHIN CHANDANI

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EDUCATION

Bachelor of Technology - Electronics and Communications Engineering

International Institute Of Information Technology(IIIT), Hyderabad

📅 July 2016 – Present

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.

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.

Algorithmic Problem Setter

Felicity Buzz Codecraft, IIIT Hyderabad

📅 August 2017 – October 2017   📍 Hyderabad, India

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

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 - WordCloud

- 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.

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).
- **ACM - ICPC 2019**: 367th team rank in online round, Team Name: **LiteLo**.
- **Google KickStart**:
  - 336th rank 2018 round-F among 4k participants.
  - 362nd rank 2019 round-E among 6.5k participants.
- **Programming Profiles**:
  - Codechef: blue_legend(4-Star) [URL]
  - Codeforces: Heisenberg(Expert) [URL]

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

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,

POSITIONS OF RESPONSIBILITY

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