

SACHIN CHANDANI

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EDUCATION

Bachelors of Technology - Electronics and Communications

International Institute Of Information Technology(IIT), Hyderabad

July 2016 – Present

WORK EXPERIENCE

Summer Analyst

Goldman Sachs Pvt. Ltd.

May 2019 – July 2019 Bengaluru, India

- Worked on development of greedy/dynamic/linear programming based solutions to reduce the inefficiency of synthetic swaps and minimize firm's cost
- Developed & deployed a web platform to efficiently query and visualize the data from an indexed data lake using logarithmic data structures.
- Improved the query time of SQL queries by dynamic programming & caching the data stats.

Web Administrator

Query Forum - IIIT Hyderabad

May 2018 - July 2019 Hyderabad, India

- Maintained frontend, backend and server of an interactive website for freshers' to get clarifications for their queries.
- Technologies: Node.js, Wordpress, Python

ACHIEVEMENTS

- Placed 10th in the Amdocs Hackfest Hackathon 2019 online round among 8000+ candidates.
- 25th place all over the globe and 13th position in India in Codechef's monthly programming contest(August Lunchtime'18). Handle: blue_legend
- 336th rank in Google Kickstart Round-F 2018.
- Member of the team TooManyBugs which secured 445th position overall and 283rd position in Amritapuri region in ACM - ICPC 2018.
- Placed 59th in online round & qualified for on-site round of IIIT-Allahabad's annual programming competition - CodeRed.
- 244th position in the pre-elimination round of Codechef's Snackdown'17. Team: 'blue_legend'
- Successfully curated and tested original algorithmic problems in the annual programming competition organized by IIIT-Hyderabad.
- Codechef Profile: blue_legend, Max. Rating: 1965(Purple)
- Codeforces Profile: Heisenberg, Max. Rating: 1667(Expert)
- 99.35 Percentile in JEE Mains 2016 and 97.04 Percentile in JEE Advanced 2016.

PROJECTS

Automated Document Cropping

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

Linux C Shell

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

3-Dimensional Shape Plotting

- 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

Sentiment Analysis

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

Heart Rate Monitoring Using PPG Signals

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

Artificial Swarm Intelligence - MOSFET Transistors

- Transistor sizing for digital circuits which uses Artificial Swarm Intelligence/Ant Colony Optimization. The leakage of 45nm MGK full adder was reduced to 50% during testing.

TECHNICAL SKILLS

C++(STL) Java Python Flask
Node.js MySQL C/C(embedded)
MATLAB Git Bash Go
OpenCV(Basic) OpenGL/WebGL
VLSI Micro-controllers

COURSEWORK

Data Structures Algorithms
Computer Networks Discrete Maths
Linear Algebra Graph Theory
Computer System Architecture
Operating Systems Random Processes
Signals and Systems Electrical Science
Digital Signal Processing Processors
Linear Electronic Circuits VLSI