Sachin Chandani

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Education

2016 - Bachelors of Technology - Electronics and Communication.

Present International Institute Of Information Technology(IIIT), Hyderabad

2013-2014 Senior Secondary, RBSE, Noble School, Falna.

GPA(Major): 9.83

2012-2013 Secondary, RBSE, Emmanuel Mission School, Pali.

GPA: 8.76

Work Experience

May 2018 - Web Administrator, QUERY FORUM - IIIT HYDERABAD, .

Present -Maintaining frontend, backend and server of the forum.

-Working with latest WordPress technologies.

May 2018 - Full Stack Developer, MERAK.AI.

July 2018 -Digitization of menu cards for food delivery companies using machine learning algorithms.

-Dashboard development for state-of-art machine learning products.

Achievements

August 2018 Codechef August Lunchtime'18.

Secured **26th position all over the globe** and **13th position in India** in Codechef's monthly programming contest.

June 2017 Codechef SnackDown'17.

244th position all over the globe in pre-elimination round. Team name: 'blue_legend'

November Felicity Buzz - IIIT Hyderabad Codecraft, Problem Setter.

2017 Successfully curated and tested original problems in the annual programming competition organized by IIIT-Hyderabad.

Projects

July 2018 Automated Document Cropping - CamScanner.

-CamScanner like automated document detection and cropping over a plane background. Node.js, Python, OpenCV, HTML, CSS.

June 2018 Sentiment Analysis - WordCloud.

-Sentiment analysis of latest tweets to create a heat-map using developer keys and NLP libraries. NLP, Python, JavaScript, HTML, CSS.

April-May Heart Rate Monitoring Using PPG Signals.

2018 -Uses PPG, ECG and Acceleration Signals to monitor heart rate with Signal Decomposition, Spectrum Peak Tracking and Sparse Signal Reconstruction. MATLAB, Python, Bash.

February-May Swarm Intelligence - Variation Resistant Sizing Of MOSFET Transistor Circuits.

2018 -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. Artificial Intelligence, C++, Python, HSPICE.

February- Shape Plotting Of The Objects.

April -Shape Plotting System which can plot 3 dimensional view of any object in x-y-z Cartesian system.

2018 -The output can be used to for development purpose i.e. input to a 3D printer. C(embedded), Bash, Micro-controllers(Arduino UNO), Circuit Designs.

November - Linux C Shell.

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

2017 tested.

System calls, C.

October 2017 Bomberman Terminal Game.

-UNIX terminal game based on original BOMBERMAN, purely developed in python without using any external libraries and having multiple difficulty levels.

August- **Python Scripting**.

October -Wrote python scripts to imitate random walk problems in vmd.

2017 -Worked with protein model and wrote programs to rotate it along any given axis in vmd.

September **Tic Tac Toe Bot**.

2017 -An AI based Tic Tac Toe bot which uses min-max algorithm to ensure the fastest victory possible. Artificial Intelligence, C++.

March-April **Obstacle Avoiding Bot**.

2017 -A bot prototype which avoids obstacles in it's path and changes it according to the requirements. Arduino, C(embedded), Circuit Designs.

Programming Profiles

Github sachin-chandani.

CodeChef blue_legend, (Current rating: 1756 - blue rated).

Relevant Coursework

Computer Data Structures and Algorithms, Computer System Architecture, Cache Management &

Science & Memory Hierarchy, IT Workshop(1 & 2), Time Complexity Analysis, Graph Theory, Linear

Mathematics Algebra, Probability and Random Processes.

Electronics Signals and Systems, Digital Signal Processing, Embedded Hardware Designs, Digital Logic and Processors, Electronic Workshop(1 & 2), Linear Electronic Circuits.

Miscellaneous Atom models, Schrodinger eqn, Lagrangian/Hamilton Mechanics, Random Walks, Diffusion, Heat, Engineering Systems, Humanities.

Technical Skills

OS Linux, macOS, Windows

Programming C, C(embedded), C++(STL), Python, Bash, Assembly. and Scripting

Web HTML5, CSS3, Node.js, Bootstrap.

Miscellaneous Git, OpenCV(Basic), LATEX, MATLAB, VLSI Designs, Micro-Controllers.

Positions Of Responsibility

Coordinator, Campus Life Committee, IIIT-Hyderabad May 2018 - Present Apex Body Member, IIIT-Hyderabad March 2018 - Present Cultural Coordinator, VAYU House, IIIT-Hyderabad June 2018 - Present November 2017 - January 2018 Core Team Member, Felicity IIIT-Hyderabad Student Mentor, IIIT Hyderabad June 2017 - March 2018 Logistics Manager, VAYU House, IIIT-Hyderabad June 2017 - March 2018